

## Sequence listing

&lt;110&gt; Widschwendter, Martin

&lt;120&gt; Prognostic and diagnostic markers for breast cell proliferative disorders

&lt;130&gt; 47675-183

&lt;140&gt; US 10/575,753

&lt;141&gt; 2004-10-14

&lt;150&gt; PCT/EP2004/011577

&lt;151&gt; 2004-10-14

&lt;150&gt; DE 10348407.8

&lt;151&gt; 2004-10-17

&lt;160&gt; 31

&lt;210&gt; 1

&lt;211&gt; 3501

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 1

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| gcggggctgg | caggggcgct  | gccctggcac  | agctcggggc  | ctggcagcgg  | cgggtggggc | 60   |
| atcggctaag | agctgccacc  | gccgcgggga  | ggggagcccg  | gcccgcgggg  | accgcaggta | 120  |
| acgggcccg  | gggcccccg   | ggccaggagg  | ggaacgggg   | cgggcggggc  | agcagcgggc | 180  |
| aggggagctc | agggctcggc  | tccgggctct  | gccgcgggat  | ttggggggcg  | cgaggaagag | 240  |
| ctgcgagcgg | agggcctggg  | gccgggcgcac | tcctcccgcc  | ctgtctgcag  | ttggaaaact | 300  |
| tttccccaag | tttggggcgg  | cggagttccg  | ggggagaagg  | ggccggggga  | gccgcggagg | 360  |
| gaggcgccgg | gcccgcgcgt  | gtagggccca  | ggccgaggcc  | gggacgcggg  | tggggcgag  | 420  |
| gcccgggtca | gggcccgcagc | cggctgtgcg  | ccgtgccgcg  | ccggggcgct  | gccccctccc | 480  |
| tcccctggga | gctgcgtggc  | tccccctcc   | ccccacctg   | cttctgcct   | cagcctcctg | 540  |
| ccccgatata | acgccctccc  | cgcgcggggc  | ccggccttcg  | cgtctgccc   | gccacggcag | 600  |
| ccgtgcctc  | cgtccccgc   | gcggccgcgg  | ccggggcccc  | gaccgagggt  | tgacagcccc | 660  |
| cggccagggc | ggcgccaggg  | cgggcaccgc  | gtccccctcc  | tccgtatcac  | ttcccccaac | 720  |
| tggggcaact | tctcccgagg  | cgggaggcgc  | tgggttcctcg | gctccctttc  | tccctacttg | 780  |
| ggtaaagtct | tccgccctga  | atgacttttc  | ctgaagcggg  | cattttactt  | aaatcgggta | 840  |
| actgtctcca | aaagggtcac  | tgcgcctgaa  | cagttttctt  | ctcggaagcc  | ccagcaccca | 900  |
| gccaggtgcc | ctggggcgctg | caggccgcgc  | tggcctcccc  | tccaccggcg  | gccgctcacc | 960  |
| tcctgtcct  | tctcctggtc  | cgggcggggc  | ggcctgggct  | ccactccag   | agggcagccg | 1020 |
| gtccttcgcc | ggtgccagg   | ccgcagggct  | gatgcccccg  | ctcagctgag  | ggaaggggaa | 1080 |
| gtggagggga | gaagtgcggg  | gctggggcca  | ggcgccagg   | gcgcgcacg   | gctctcacc  | 1140 |
| ggccggtgtg | tgtccccgca  | ggagagtgtg  | ctgggcagac  | gatgctggac  | acgatggagg | 1200 |
| cgcccggcca | ctccaggcag  | ctgctgctgc  | agctcaacaa  | ccagcgcacc  | aagggttct  | 1260 |
| tgtgcgacgt | gatcatcgctg | gtgcagaacg  | ccctcttcgg  | cgcgcacaag  | aacgtgctgg | 1320 |
| cggccagcag | cgcctacctc  | aagtccctgg  | tgggtgatga  | caacctgctc  | aacctggacc | 1380 |
| atgacatggt | gagcccgggc  | gtgttcgcgc  | tgggtgctgga | cttcactctac | accggccgcc | 1440 |
| tggctgacgg | cgcagaggcg  | gctgcggccg  | cggccgtggc  | cccgggggct  | gagccgagcc | 1500 |
| tgggcgcggt | gctggccgcg  | gccagctacc  | tgcagatccc  | cgacctcgtg  | gcgctgtgca | 1560 |
| agaaacgcct | caagcgccac  | ggcaagtact  | gccacctgcg  | gggcggcggc  | ggcggcggcg | 1620 |
| gcggtacgc  | gccctatggt  | cggccggggc  | ggggcctgcg  | ggccgccacg  | ccggtcatcc | 1680 |
| aggcctgcta | cccgtcccca  | gtcgggcctc  | cgcgcgcgcg  | tgcgcgggag  | ccgccctcgg | 1740 |
| gcccagaggc | cgcggccaac  | acgcactgcg  | ccgagctgta  | cgcgtcggga  | cccgcccgcg | 1800 |
| ccgcgcact  | ctgtgcctcg  | gagcgcgcgt  | gtccccctct  | ttgtggcctg  | gacctgtcca | 1860 |
| agaagagccc | gccgggctcc  | gcggcgccag  | agcggccgct  | ggctgagcgc  | gagctgcccc | 1920 |
| cgcgcccggg | cagccctccc  | agcgcgggcc  | ccgcgccta   | caaggagccg  | cctctcgccc | 1980 |
| tgcgctcgt  | gccgcgcgtg  | cccttcacga  | agctggagga  | ggcgcacccg  | ccttcgcgac | 2040 |
| catttcgcgg | cggcagcggc  | agccccggac  | ccgagccccc  | cggccgcccc  | gacgggccta | 2100 |
| gtctcctcta | tcgctgggatg | aagcacgagc  | cgggcctggg  | tagctatggc  | gacgagctgg | 2160 |

## 12496480\_1.TXT

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| cgcccgggg  | gccccgctc  | ggcctggcgc | cgccgcccgc  | ctaccctggc  | agcctggacg  | 2280 |
| ggccccggcg | ggggcgcgac | ggcgacgact | acaagagcag  | cagcgaggag  | accggtagca  | 2340 |
| gcgaggaccc | cagcccgcct | ggcgccacc  | tcgagggcta  | cccatgcccg  | cacctggcct  | 2400 |
| atggcgagcc | cgagagcttc | ggtgacaacc | tgtacgtgtg  | cattccgtgc  | ggcaagggct  | 2460 |
| tccccagctc | tgagcagctg | aacgcgcacg | tggaggctca  | cgtggaggag  | gaggaagcgc  | 2520 |
| tgtacggcag | ggccgaggcg | gccgaagtgg | ccgctggggc  | cgccggccta  | gggccccctt  | 2580 |
| ttggaggcgg | cggggacaag | gtcgccgggg | ctccgggtgg  | cctgggagag  | ctgctgcggc  | 2640 |
| cctaccgctg | cgcgtcgtgc | gacaagagct | acaaggaccc  | ggccacgctg  | cggcagcacg  | 2700 |
| agaagacgca | ctggctgacc | cggccctacc | catgcacat   | ctgcgggaag  | aagttcacgc  | 2760 |
| agcgtgggac | catgacgcgc | cacatgcgca | gccacctggg  | cctcaagccc  | ttcgcggtgcg | 2820 |
| acgcgtgcgg | catgcggttc | acgcgccagt | accgcctcac  | ggagcacatg  | cgcattccact | 2880 |
| cgggcgagaa | gccctacgag | tgccaggtgt | gcggcggcaa  | gttcgcacag  | caacgcaacc  | 2940 |
| tcatcagcca | catgaagatg | cacgcctggg | ggggcgcggc  | cggcgcgggc  | ggggcgctgg  | 3000 |
| cgggcttggg | ggggctcccc | ggcgtccccg | gccccgacgg  | caagggcaag  | ctcgacttcc  | 3060 |
| ccgagggcgt | ctttgctgtg | gctcgcccca | cggccgagca  | gctgagcctg  | aagcagcagg  | 3120 |
| acaaggcggc | cgcgcccgag | ctgctggcgc | agaccacgca  | cttccctgcac | gaccccaagg  | 3180 |
| tggcgctgga | gagcctctac | ccgctggcca | agttcacggc  | cgagctgggc  | ctcagccccg  | 3240 |
| acaaggcggc | cgaggtgctg | agccagggcg | ctcacctggc  | ggccggggccc | gacggccgga  | 3300 |
| ccatcgaccg | tttctctccc | acctagagcg | ccccctcgcca | gcccgtctctg | tcgctgctgc  | 3360 |
| gcggcccttg | cccgcacccc | agggagcggc | gggggcggcg  | cgcagggccc  | actgtgcccg  | 3420 |
| ggacaaccgc | agcgtcgcca | cagtggcggc | tccacctctc  | ggcggcctca  | cctggcctca  | 3480 |
| ctgcttcgtg | ccttagctcg | g          |             |             |             | 3501 |

&lt;210&gt; 2

&lt;211&gt; 2501

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 2

|             |             |            |             |            |             |      |
|-------------|-------------|------------|-------------|------------|-------------|------|
| tttccatagt  | gtaaatgtgt  | tcccaccact | ctctggagta  | atcctactta | aaaccgtttt  | 60   |
| cagcacaaaa  | ttcaaacatc  | taaacatgat | cttgcgtggc  | ttgcttttgt | ggcttttacc  | 120  |
| tctttctccc  | caaacctagc  | tagtgtttgt | gctgcctgta  | atgcccttct | ttctttgcag  | 180  |
| gggtcgccac  | tttaggtcct  | ggtcctcctt | cagaaagttt  | ttcctctttc | tccccagcgg  | 240  |
| ggataggggtc | tgtttatttt  | gacaccatta | gctcacttac  | acacattggt | cacaagtcta  | 300  |
| ggctgcaccg  | ttattgaaag  | tttaccatct | gactctgagt  | agcttgagga | tcctatcaaa  | 360  |
| actcaggaga  | tgctcagtaa  | atgttgattg | aactatgact  | gttctcaaca | tacaaacgca  | 420  |
| agatcattta  | ggaacacttg  | tcaaaatggt | tttgcccctt  | gagattctat | tttgggaggt  | 480  |
| aagcagtggg  | ggccaggac   | tctgcatttt | gacagtcccc  | tgatgtttgc | atgtagaagt  | 540  |
| gcagggatta  | ttacactgac  | aaatctttac | catccctaag  | ggggactttc | cttcccaggg  | 600  |
| gctatctctg  | gaagcccctc  | aaggataggg | gccgcatgct  | gtttctctag | gtcagcaact  | 660  |
| aaaccagaaa  | aacgtttatt  | gagtgaatga | tgaacgaca   | ggtgaataga | tgaacgcaag  | 720  |
| gtgtcgagtt  | aactattctt  | ctacacaagt | cctagcagct  | cccattgctt | ccagccgcag  | 780  |
| aaatggcccc  | tggaaaggcaa | gtcttccagc | gagtggagtc  | actcttaact | acatttccca  | 840  |
| ggattccaag  | ggagccgcgc  | gctctgcgct | catcttcccta | ccagaaatcg | gcaagtcaact | 900  |
| gacctcgtc   | ccgccccgcg  | cattccccgc | ctcctcctgt  | cccgcagtcg | gcgtccagcg  | 960  |
| gctctgcttg  | ttcgtgtgtg  | tgtcgttgca | ggccttatte  | atgggctcac | cgctgagggt  | 1020 |
| cgacgggcgg  | gtggtactgg  | tcaccggcgc | gggggcaggt  | gagcatgcga | aggttgaggg  | 1080 |
| ccgcgcccct  | tgctgaggcg  | cagctggctg | ctcttttcgg  | gccggcatac | gcgcgcagcc  | 1140 |
| gcagctgagg  | tcaccccgcct | gaggtgggtg | ggaggggaat  | ggttattctt | gaggcacccg  | 1200 |
| atctcttgag  | gaggaaagag  | ccggaaacac | ctggtctctc  | aagcaggtac | agcccgcttc  | 1260 |
| tccccagcac  | cccgggtgtg  | gcttcccaag | gtcctgcctg  | agaggagagg | ccaggctggg  | 1320 |
| ctgctgattg  | caaaactggg  | tgaagttct  | ccctgaccct  | tatctgtggg | catcgattgt  | 1380 |
| tactcttcct  | gcaattaact  | ctcttagatc | tttgccctag  | cttttaaagg | actgaaaagc  | 1440 |
| cgcgaggggc  | gggggctgga  | attcgcccc  | tgaagcgcag  | agatgtcagc | tcctgaaaag  | 1500 |
| tcattcggctc | gttcagtgtt  | tgtttccctc | tgtcgtaaga  | ttttaagttc | gtgagaggac  | 1560 |
| cttctttaaa  | gaggcgctct  | gataagagcc | cttccccgtt  | ggagtttgta | tgccttagcaa | 1620 |
| gtcacaatct  | gttctcgaaa  | tccactggag | tcttggcaga  | ggttgtaagc | tcaaatgcgc  | 1680 |
| acaggggtca  | ggcgtatgat  | ggagaaagaa | aatgggagta  | ggatgggcac | atctgaggaa  | 1740 |
| ctggagagca  | gagaattccg  | aagtggaccg | gccagtgagg  | aagttgcctg | tatttcagga  | 1800 |
| gcggcaaaat  | ggaaaattgt  | tatgtgaaat | agccccattt  | tttaaagtac | aaaaaattaa  | 1860 |
| aacaaaccat  | tcataccaac  | atagatgctg | tgcagtgaga  | ttttacatta | gtttctcacc  | 1920 |

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| agtggtgac   | ctctgtaacc  | tccaagtgc   | gggatcttga  | cattatgcac | ctttgattct | 1980 |
| ccactggtag  | taccttatac  | ctggaaagge  | cctaattgcat | gaattatttg | agttatatat | 2040 |
| taaactgttac | aaactggaat  | tctgtcaatt  | aattcctatg  | tactttcata | tctgtattga | 2100 |
| taaagtggct  | tcttatgctg  | cctttcagaa  | aatgccttca  | gtgttgatga | atagccaagt | 2160 |
| atcttataacc | catagctgtc  | tggttatctc  | tgcattgggca | tgtatttggg | tgtagtata  | 2220 |
| ccttctaaat  | gttttttagga | aaacattttg  | tttacacttt  | gcttttattg | taaataatgt | 2280 |
| atcttataacc | gcttggtgtt  | ttaaatcttt  | tttgacagct  | cttggataat | tttcatgcag | 2340 |
| gaggtccagg  | gattacattc  | taagacgttt  | ttgccatcgc  | taaggagact | ttccttttca | 2400 |
| ggggctatat  | ctgaaaatca  | ttcaaggata  | gggactgctt  | cttttgacac | cattagcata | 2460 |
| cttacacatg  | gtatgcagta  | catttttacac | cagtactcag  | t          |            | 2501 |

&lt;210&gt; 3

&lt;211&gt; 2470

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 3

|             |             |             |             |             |             |      |
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| aaagatgatt  | aaaagtttaa  | ttgttcatct  | gaagagttga  | tttttttatt  | cctgtaataa  | 60   |
| agggtaactt  | tagcagtctc  | tgtcatctct  | gcccacccgg  | ctctttttgt  | ggttgtgtaa  | 120  |
| gggtataact  | tctgtgtctc  | agtaaaacttg | tgcattgccc  | tttttttctc  | tgttactacc  | 180  |
| ttttctctta  | ttttgtttta  | ttattttgat  | gtaaaattac  | ctgttaattt  | tatttgaaat  | 240  |
| gagaaatttt  | aagggttcaca | ttattcaaat  | tctgtcagat  | ccctacctct  | gtcatatggg  | 300  |
| ttataatgtg  | ctgggtatct  | tcagacctgc  | ttattaaaaa  | gatgtaaaac  | aaaataatga  | 360  |
| tcactcctgt  | ggatttttcc  | ttattttttg  | agatgtctcc  | tttggctgca  | ttacttcttc  | 420  |
| acccttggcc  | cattgatcag  | aggaggggtc  | ttactatggg  | gtgaacccta  | tatcttactg  | 480  |
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| ttgtaagtgt  | tcattttacaa | attgtgaaat  | gaattaaaaa  | gaaagggcaa  | agattaaatc  | 660  |
| atgaccaggc  | ctgaaattaa  | cacacaagac  | tcaatttttt  | tcaaccaaag  | actttttag   | 720  |
| gtgatccctg  | cctgcaggac  | tccccttcc   | cctcagatgt  | cattggattg  | taccagggtt  | 780  |
| actgtagatt  | ctagccgttg  | tagaactaac  | tagatctaag  | atgagtcctc  | tgatttccct  | 840  |
| tggtagagtc  | ttccaattgc  | tgaactccaa  | tattgtcgtg  | actagccagt  | gttacaacct  | 900  |
| gtctgcctta  | ttttgtgtaa  | tggatttcat  | attacagagg  | cattttttta  | atgtcaagat  | 960  |
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| aggcaggatt  | ttatttgttc  | caaaatgatt  | tgacctaaac  | taaaaagaga  | atgtggatct  | 1080 |
| cctgaatctt  | acttgggttaa | tcttaatat   | actcctagca  | ttctataatt  | cttcctaaag  | 1140 |
| tctcttacc   | tggctatctt  | ttgtatcttc  | tttgtctctc  | ctcttctttc  | ccagtcataa  | 1200 |
| taactgccag  | attctgcttc  | atttctcttt  | gacagctctc  | actcctaagg  | tcattccattc | 1260 |
| tcttttaggta | tcttttggcc  | tcagtttgag  | cacagcagat  | cccaagacca  | catatgccat  | 1320 |
| agcataggct  | attatagtca  | accttttgaa  | taaatgtgat  | tgaactttat  | gttagtaatt  | 1380 |
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| tctgtgagaa  | ggcaaatgta  | ttcagacaca  | actaaagttc  | tctcttctat  | tttaatttca  | 1800 |
| tttatcttga  | actaagactc  | cactgtttca  | tcctcttaga  | tgtctgtact  | tgaacaatat  | 1860 |
| tgttttgaga  | ccaaaaacta  | gcataattaac | acaattcttc  | ttaaacgtct  | taagagtttt  | 1920 |
| gtttccttta  | cccctttctt  | taaaaacaa   | cagccactaa  | attttttagt  | agtgaatttc  | 1980 |
| aaaatccttt  | ttaaccttat  | aggtccaagg  | gtagccaagg  | atggctgcag  | cttcatatga  | 2040 |
| tcagttgtta  | aagcaagtgt  | aggcactgaa  | gatggagaac  | tcaaatcttc  | gacaagagct  | 2100 |
| agaagataat  | tccaatcatc  | ttacaaaact  | ggaaactgag  | gcattctaata | tgaagggtatc | 2160 |
| aagactgtga  | cttttaattg  | tagtttatcc  | atttttattc  | agtattccct  | cttgtaaact  | 2220 |
| tgaggtaaga  | cactttactt  | aaaagtgtat  | tttaaatata  | gcaataatat  | gtaaactctt  | 2280 |
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| atataaagaa  | ataaagtgt   | aaactccaat  | ggctagttag  | ttcttagttc  | tttttaagat  | 2400 |
| taaagagaag  | agaccaaata  | tagcatcact  | gtactgaggc  | aaggttttct  | gtgtagttca  | 2460 |
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&lt;210&gt; 4

&lt;211&gt; 7001

<212> DNA  
 <213> Homo Sapiens

<400> 4

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| aatgcaatgg  | aaaaagagag  | attgtaaagc  | tagaaggcct  | aggaattgcc | tcttgattag | 60   |
| gtgtggaagg  | caagggaaaa  | tcagccctcg  | aagaagacag  | tgagatttta | atctgggtgg | 120  |
| ctggagagac  | agtgatgctg  | ggcacagaca  | cggggaagtt  | gagaggaaca | ccatgtttga | 180  |
| gaatggtgac  | tcataattga  | acaagcctgc  | aatgcccagc  | agaccgctgg | aaaagtgggg | 240  |
| ctggagacac  | attcaacgga  | ggagccagat  | caatctttac  | ccttcttcac | ctgagagagc | 300  |
| cagtaagtca  | cggctggaac  | gtgtgtgtcc  | agcaggagag  | ggtagggagg | gaagccaaga | 360  |
| gagctgggag  | cccagtgtaa  | gtttttgcc   | aaggcagaag  | aggaaagtcg | gcgtagcaca | 420  |
| gtatactttc  | ccacccatgc  | tcaccaagcc  | cagggacaag  | gctcaccaag | atgagtttgg | 480  |
| aagagaatgc  | tggagagaaa  | gtggttaaga  | aaactgcctt  | tactgaactt | cttgggctaa | 540  |
| ctttgattgt  | aagtctctga  | acaatcaaag  | cctgtgagga  | gacagctaac | cttcttattc | 600  |
| ttcctatgtc  | aatagtgaac  | aattgcagat  | cccctttcct  | ttccttctcc | tttcccctgt | 660  |
| tcctctctcc  | tccttccttg  | aatactcttg  | cttttttctg  | ggactggtct | agagcatggg | 720  |
| tggccattgt  | tgacctacag  | gaggcaccac  | tgtcaccaac  | aaagggtaac | agtctttctt | 780  |
| ttcaatatatt | atztatatcc  | agtattttatt | ttcaatactg  | actatggaga | gagctctcct | 840  |
| gtgctcaaac  | actgcaatac  | tgggggtcct  | tcaaagcaca  | aaaacatata | tttgcatgat | 900  |
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&lt;212&gt; DNA

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&lt;400&gt; 5

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| ctcctcatgt  | cattagatgg  | actcctgcat | ctccagaaga | ttttccacac | caggaaagat | 180  |
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| ttgtcttcca  | gcacaattcc  | tctccaagc  | cttactgtag | ctacagccca | tcagtctgt  | 360  |
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| gtcgggagcg  | cgggtttttt  | agcgaagcgt  | gcgaagagcg  | tgggtggggac | gcgggtcgtt  | 2220 |
| cgttcggggg  | gttttcgttc  | ggtttggcgt  | cgtcgtcgcg  | ttattttggg  | agttttggac  | 2280 |
| ggttcggcgc  | gggcggcgac  | ggcgacgatt  | ataagagtag  | tagcgaggag  | atcggtagta  | 2340 |
| gcgaggattt  | tagttcgttt  | ggcgggtatt  | tcgaggggtta | tttatgttcg  | tattttgggt  | 2400 |
| atggcgaggt  | cgagagtttc  | ggtgataatt  | tgtacgtgtg  | tatttcgtgc  | ggtaaggggt  | 2460 |
| tttttagttt  | tgagtagttg  | aacgcgtacg  | tggaggttta  | cgtggaggag  | gaggaagcgt  | 2520 |
| tgtacggtag  | ggtcgaggcg  | gtcgaagtgg  | tcgttggggg  | cgtcgggttt  | gggttttttt  | 2580 |
| ttggaggcgg  | cggggataag  | gtcgtcgggg  | tttcgggttg  | tttgggagag  | ttgttgcggg  | 2640 |
| tttatcgttg  | cgcgtcgtgc  | gataagaggt  | ataaggattc  | ggttacgttg  | cggtagtacg  | 2700 |
| agaagacgta  | ttggttgatt  | cggttttatt  | tatgtattat  | ttgcgggaag  | aagtttacgt  | 2760 |
| acgctgggat  | tatgacgcgt  | tatatgcgta  | gttattttgg  | ttttaagttt  | ttcgcgtgcg  | 2820 |
| agcgtgcgg   | tatgcggttt  | acgcgttagt  | atcgtttttt  | ggagtatatg  | cgtattttat  | 2880 |
| cgggcgagaa  | gttttacgag  | tgttaggtgt  | gcggcggtta  | gttcgtatag  | taacgtaatt  | 2940 |
| ttattagtta  | tatgaagatg  | tacgtcgtgg  | ggggcgcggt  | cggcgcggtc  | ggggcggttg  | 3000 |
| cgggttttgg  | gggggttttt  | ggcgttttcg  | gttttcgacg  | taagggttaag | ttcgattttt  | 3060 |
| tcgagggcgt  | ttttgttgtg  | gttcgtttta  | cggtcgagta  | gttgagtttg  | aagtagtagg  | 3120 |
| ataaggcggt  | cgcgggtcgag | ttgttggcgt  | agattacgta  | ttttttgtac  | gatttttaagg | 3180 |

## 12496480\_1.TXT

|            |             |            |            |            |            |      |
|------------|-------------|------------|------------|------------|------------|------|
| tggcgttgga | gagtttttat  | tcgttggtta | agtttacggt | cgagttgggt | tttagtttcg | 3240 |
| ataaggcgg  | cgaggtgttg  | agttaggcg  | tttatttggc | ggtcgggttc | gacggtcgga | 3300 |
| ttatcgatcg | ttttttttt   | atttagagcg | tttttcgtta | gttcgttttg | tcgttggtgc | 3360 |
| gcggtttttg | ttcgatattt  | agggagcggc | gggggcggcg | cgtagggttt | attgtgttcg | 3420 |
| ggataatcgt | agcgtcggtt  | tagtggcgg  | tttatttttc | ggcggtttta | tttggtttta | 3480 |
| ttgtttcgtg | tttttagttcg | g          |            |            |            | 3501 |

&lt;210&gt; 7

&lt;211&gt; 3501

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; chemically treated genomic DNA (Homo sapiens)

&lt;400&gt; 7

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| tcgagttaag  | gtacgaagta  | gtgaggttag  | gtgaggtcgt  | cgagaggtgg  | agtcggttatt | 60   |
| gtggcgacgt  | tgcggttggt  | tcgggtatag  | tgggttttgc  | gcgtcgtttt  | cgtcggtttt  | 120  |
| tggggtgcgg  | gttagggtcg  | cgtagtagcg  | atagagcggg  | ttggcgaggg  | gcgttttagg  | 180  |
| tgggagagaa  | acggtcgatg  | gttcggtcgt  | cgggttcggg  | cgttaggtga  | gcgttttggt  | 240  |
| ttagtatttc  | ggtcgttttg  | tcggggttga  | ggtttagttc  | ggtcgtgaat  | ttggtttagc  | 300  |
| ggtagagggt  | ttttagcgtt  | attttgggg   | cgtgtaggaa  | gtgcgtgggt  | tgcgttagta  | 360  |
| gttcggtcgc  | ggtcgttttg  | ttttgttggt  | ttaggtttag  | ttgttcgggc  | gtgaggcgag  | 420  |
| ttatagtaaa  | gacgttttcg  | gggaagtcga  | gtttgttttt  | gtcgtcgggg  | tcggggacgt  | 480  |
| cggggagttt  | ttttaagttc  | gttagcgttt  | cggtcgcgtc  | ggtcgcgttt  | tttacggcgt  | 540  |
| gtatttttat  | gtggttgatg  | aggttgcgtt  | gttgtgcgaa  | tttgtcgtcg  | tatatattggt | 600  |
| attcgtagg   | tttttcgttc  | gagtggaatg  | gtatgtgttt  | cgtgaggcgg  | tattggcgcg  | 660  |
| tgaatcgat   | gtcgtacgcg  | tcgtacgcga  | agggtttgag  | gtttagggtg  | ttgcgtatgt  | 720  |
| ggcgcggtat  | ggttttacgt  | tgcgtgaatt  | ttttttcgta  | gatgggtgat  | gggtagggtc  | 780  |
| gggttagtta  | gtgcgttttt  | tcgtgttgtc  | gtagcgtggg  | cgggtttttg  | tagtttttgt  | 840  |
| cgtacgacgc  | gtagcggtag  | ggtcgttaga  | gtttttttag  | gttattcgga  | gtttcggcga  | 900  |
| ttttgttttc  | gtcgtttttt  | aaaggggggt  | ttaggtcggc  | ggtttttagc  | gttatttcgg  | 960  |
| tcgtttcggg  | tttgtcgtat  | acgttttttt  | ttttttttac  | gtgagttttt  | acgtgcgcgt  | 1020 |
| ttagttgttt  | agagttgggg  | aagtttttgt  | cgtacggaat  | gtatacgtat  | aggttgttat  | 1080 |
| cgaagttttc  | gggttcgtta  | taggttaggt  | gcgggtatgg  | gtagttttcg  | agggtggtcg  | 1140 |
| taggcgggtt  | ggggttttcg  | ttgttatcgg  | ttttttcggt  | gttggttttg  | tagtcgtcgt  | 1200 |
| cgtcgtcgtt  | cgcgtcgggt  | tcgttttaggt | tgttagggta  | gcgcggcggc  | ggcgttaggt  | 1260 |
| cgagcggggg  | tttttcgggc  | gagacggtcg  | cgttttttat  | acgttttttc  | tagcgttcgt  | 1320 |
| tggggagagc  | gcgttttcgg  | tttagttcgt  | cgttatagtt  | atttagggtc  | ggttcgtggt  | 1380 |
| ttattttagcg | atagaggaga  | ttaggttcgt  | cggggcgggc  | gggggggttc  | ggtttcgggt  | 1440 |
| tgtcgttgtc  | gtcgcgaaat  | gggtcggaag  | gcggtgcggg  | tttttttagt  | ttttggaagg  | 1500 |
| gtagcggcgg  | tagcgacggg  | agggcgagag  | gcggtttttt  | gtaggcggcg  | gggtcggcgt  | 1560 |
| tgggaggggt  | gttcggggcg  | gggggtaggt  | cgcgttttag  | tagcggtcgt  | tttggcgtcg  | 1620 |
| cggagtttcg  | cgggtttttt  | ttggataggt  | ttaggttata  | aagaggggag  | tagcggcgtt  | 1680 |
| tcgaggtata  | gagtcggcgg  | gtcgggtcgg  | gttttcgacgc | gtatagttcg  | gcgtagtcgc  | 1740 |
| tgttgatcgc  | ggttttttgg  | ttcgagggcg  | gttttcgcgg  | aggcggcggc  | ggaggttcga  | 1800 |
| ttggggacgg  | gtagtagggt  | tggatgatcg  | gcgtggcggg  | tcgtagggtt  | cggttcgggc  | 1860 |
| gattatagg   | cgcgtagtcg  | tcgtcgtcgt  | cgtcgtcgtt  | tcgtagggtg  | tagtatttgt  | 1920 |
| cgtggcgttt  | gaggcgtttt  | ttgtatagcg  | ttacgaggtc  | ggggatttgt  | aggtagttgg  | 1980 |
| cggcggttag  | tacggcgttt  | aggttcgggt  | tagtttttcg  | ggttacgggc  | gcggtcgtag  | 2040 |
| tcgtttttgc  | gtcgttaggt  | aggcggtcgg  | tgtagatgaa  | gttttagtatt | aggcgaata   | 2100 |
| cggtcgggtt  | tattatgtta  | tggtttaggt  | tgagttaggt  | gttatgtatt  | attagggatt  | 2160 |
| tgaggtaggc  | gttggttggtc | gttagtacgt  | ttttgtgcgc  | gcggaagagg  | gcgttttgta  | 2220 |
| ttacgatgat  | tacgtcgtat  | aagaagtttt  | tgggtgcgtt  | gttggttagt  | tgtagtagta  | 2280 |
| gttggtttgga | gtggttcgggc | gttttttatcg | tgttttagtat | cgtttgttta  | gtatattttt  | 2340 |
| ttgcggggat  | atatatcggg  | cgggtgagag  | tcgtgcggcg  | ttttggtcgt  | ttgggttttag | 2400 |
| ttcggtatatt | ttttttttta  | tttttttttt  | tttttagttga | gcgggggtat  | tagttttgcg  | 2460 |
| gtttgggtat  | cggcgaaggga | tcgggttggtt | tttggagtg   | gagtttaggt  | cggttcgttc  | 2520 |
| ggattaggag  | aaggagtagg  | aggtgagcgg  | tcgtcgggtg  | aggggaggtt  | agggcgggtt  | 2580 |
| gtacgtttta  | gggtatttgg  | ttgggtgttg  | gggttttcga  | gaagaaaatt  | gttttaggcgt | 2640 |
| agtgattttt  | ttggagatag  | ttattcgaat  | taagtaaaat  | gttcgtttta  | ggaaaagtta  | 2700 |
| tttagggcgg  | agaattttat  | ttaagtaggg  | agaaaaggag  | tcgaggaatt  | agcgtttttc  | 2760 |

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|            |            |            |            |             |             |      |
|------------|------------|------------|------------|-------------|-------------|------|
| gtttcgggag | aagttgtttt | agttggggga | agtgatacgg | aggaggggag  | cgcggtgttc  | 2820 |
| gttttggcgt | cgttttggtc | gggggttggt | aattttcggg | cgggggttcgg | gcggcggtcg  | 2880 |
| cgcggggagc | ggaggtagcg | gttgctcgtg | cgggtagagc | gcgaaggctc  | ggttcgggcgc | 2940 |
| ggggagggcg | ttatatcggg | gtaggaggtt | gaggtaggaa | gtagggtggg  | gggagggggg  | 3000 |
| agttacgtag | tttttagggg | agggaggggg | tagcgtttcg | ggcggttacg  | gcgtatagtc  | 3060 |
| ggttgcggtt | ttgattcggg | tttgcgtttt | attcgcgttt | cggtttcggg  | ttgggtttta  | 3120 |
| tacgcgcggg | ttcggcggtt | tttttcgcgg | ttttttcggg | tttttttttt  | tcggaatttc  | 3180 |
| gtcgttttaa | atttggggaa | aagtttttta | attgtagata | gggcgggagg  | agtgcgtcgg  | 3240 |
| tttttaggtt | tcgggttcgt | gttttttttc | gcggttttta | aattcggcgg  | tagagttcgg  | 3300 |
| agtcgagttt | tgagtttttt | tgttcgtttg | tcgttcgttc | gatttcggtt  | tttttttggt  | 3360 |
| tcgcgggggt | tcgcgggttc | ttatattgcg | tttcggcggg | tcgggttttt  | tttttcgcgg  | 3420 |
| cggtggtagt | tttttagtcg | tgtttttatt | gtcgttggtt | ggtttcgagt  | tgtgttaggg  | 3480 |
| tagcgttttt | gttagtttcg | t          |            |             |             | 3501 |

<210> 8

<211> 2501

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 8

|            |             |             |             |             |             |      |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| tttttatagt | gtaaatgtgt  | ttttattatt  | ttttggagta  | attttattta  | aaatcgtttt  | 60   |
| tagtataaaa | tttaaatatt  | taaatatgat  | tttgttgggt  | ttgtttttgt  | ggttttatnt  | 120  |
| tttttttttt | taaaatttagt | tagtgtttgt  | gttgtttgta  | atgttttttt  | ttttttgtag  | 180  |
| gggtcgttat | tttaggtttt  | ggtttttttt  | tagaaagttt  | tttttttttt  | tttttagcgg  | 240  |
| ggataggggt | tgtttatntt  | gatattatta  | gtttatntat  | atatattggg  | tataagttta  | 300  |
| ggttggtatc | ttattgaaag  | tttattatnt  | gattttgagt  | agtttgagga  | ttttattaaa  | 360  |
| atttaggaga | tgtttagtaa  | atgttgattg  | aattatgatt  | gtttttaata  | tataaacgta  | 420  |
| agattattta | ggaatatntt  | ttaaaatggt  | tttgtttttt  | gagattttat  | tttgggaggt  | 480  |
| aagtagtggt | ggtttaggat  | tttgattttt  | gatagttttt  | tgatgtttgt  | atgtagaagt  | 540  |
| gtagggttta | ttatatagat  | aaatttttat  | tatttttaag  | ggggattttt  | tttttttaggg | 600  |
| gttatttttt | gaagtttttt  | aaggataggg  | gtcgtatggt  | gttttttttag | gttagtaatt  | 660  |
| aaatntagaa | aacgtttatt  | gagtgaatga  | tgaacgata   | ggtgaataga  | tgaacgtaag  | 720  |
| gtgtcgaggt | aattatnttt  | ttatataagt  | tttagtaggt  | tttattgttt  | ttagtcgtag  | 780  |
| aaatggtttt | tggaaaggtaa | gtttttttagc | gagtgaggtt  | attttttaatt | atattttttta | 840  |
| ggatttttaa | ggagtcgcgc  | gtttttgcgt  | tatttttttt  | ttagaaatcg  | gtaagttatt  | 900  |
| gatttttcgt | tcgtttttcgt | tattttttcgt | ttttttttgt  | ttcgtagtcg  | gcgttttagcg | 960  |
| gtttttgttt | ttcgtgtgtg  | tgtcgttgta  | ggttttatnt  | atgggtttat  | cgttgaggtt  | 1020 |
| cgacgggcgg | gtggtattgg  | ttatcggcgc  | gggggttaggt | gagtatgcga  | agggttgagg  | 1080 |
| tcgcgttttt | tgttgaggcg  | tagttgggtg  | tttttttcgg  | gtcggatata  | gcgcgtagtc  | 1140 |
| gtagttgagg | ttatttcgtt  | gaggtgggtg  | ggaggggaat  | ggttatnttt  | gaggtatcgt  | 1200 |
| attttttgag | gaggaaagag  | tcggaaaat   | ttggtttttt  | aagtaggtat  | agtttcgttt  | 1260 |
| tttttagtat | ttcgggtgtg  | gtttttttaag | gtttttgttt  | agaggagagg  | ttagggtggg  | 1320 |
| ttgttgattg | taaaattggg  | tgaagttttt  | ttttgatttt  | tatttgtggg  | tatcgattgt  | 1380 |
| tatttttttt | gtaatttaatt | tttttagatt  | tttgtttagt  | tttttaaagg  | attgaaaagt  | 1440 |
| cgcgaggggc | gggggttgga  | attcgttttt  | tgaagcgtag  | agatgttagt  | ttttgaaaag  | 1500 |
| ttattcggtc | gttttagtgt  | tgtttttttt  | tgtcgttaaga | ttttaagttc  | gtgagaggat  | 1560 |
| tttttttaaa | gagggcggtt  | gataagaggt  | ttttttcgtt  | ggagtttgta  | tgtttagtaa  | 1620 |
| gttataaatt | gttttcgaaa  | tttattggag  | ttttggtaga  | ggttgtaagt  | ttaaatgcgt  | 1680 |
| ataggggtta | ggcgtatgat  | ggagaaagaa  | aatgggagta  | ggatgggtat  | atttgaggaa  | 1740 |
| ttggagagta | gagaatttcg  | aagtggatcg  | gttagtggtg  | aagttgtttg  | tatttttagga | 1800 |
| gcggtaaaa  | ggaaaattgt  | tatgtgaaat  | agttttatnt  | tttaaagtat  | aaaaaatata  | 1860 |
| aataaaatt  | ttatattaat  | atagatgttg  | tgtagtgaga  | ttttatatta  | gttttttatt  | 1920 |
| agtgggtgat | ttttgttaatt | tttaagtgtg  | gggatttttg  | tattatgtat  | ttttgatttt  | 1980 |
| ttattggtag | tattttatata | ttggaaaggt  | tttaatgtat  | gaattatntg  | agttatata   | 2040 |
| taaacgttat | aaattggaat  | tttgtttaatt | aatttttatg  | tattttttata | tttgtattga  | 2100 |
| taaagtgggt | ttttatgttg  | tttttttagaa | aatgtttttt  | gtgttgatga  | atagtttaagt | 2160 |
| atttttatnt | tatagttgtt  | tgggtatntt  | tgtatgggtg  | tgtatntggg  | tgtagttata  | 2220 |
| tttttttaaa | gttttttagga | aaatatnttt  | tttatatntt  | gtttttatnt  | taaataatgt  | 2280 |
| atttttataa | gttttggtgtt | ttaaaatttt  | tttgatagtt  | tttggaata   | ttttatgtag  | 2340 |

## 12496480\_1.TXT

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| gagggttagg | gattatattt | taagacgttt | ttgttatcgt | taaggagatt | ttttttttta | 2400 |
| ggggttatat | ttgaaaatta | tttaaggata | gggattgttt | tttttgatat | tattagtata | 2460 |
| tttatatatg | gtatgtagta | tattttatat | tagtatttag | t          |            | 2501 |

&lt;210&gt; 9

&lt;211&gt; 2501

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; chemically treated genomic DNA (Homo sapiens)

&lt;400&gt; 9

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| attgagtatt  | ggtgtaaaat  | gtattgtata  | ttatgtgtaa  | gtatgttaat  | ggtgttaaaa  | 60   |
| gaagtagttt  | ttatttttga  | atgattttta  | gatatagttt  | ttgaaaagga  | aagttttttt  | 120  |
| agcgatggta  | aaaacgtttt  | agaatgtaat  | ttttggattt  | tttgatatgaa | aattatttta  | 180  |
| gagttgttaa  | aaaagattta  | aaatattaag  | cgttgtaaaa  | tatattattt  | ataataaaag  | 240  |
| taaagtgtaa  | ataaaatggt  | tttttaaaaa  | tatttagaag  | gtatgattat  | atttaaatat  | 300  |
| atgtttatgt  | agagataatt  | agatagttat  | gggtataaaa  | tatttggtta  | tttattaata  | 360  |
| ttgaaagtat  | tttttgaaag  | gtagtataag  | aagttatttt  | attaatatag  | atatgaaagt  | 420  |
| atataggaat  | taattgatat  | aatttttagtt | tgtaacgttt  | aatatataat  | ttaaataaatt | 480  |
| tatgtattag  | ggttttttta  | ggtataagggt | attattagtgt | gagaattaaa  | ggtgtataat  | 540  |
| gttaagattt  | ttgtatttgg  | aggttataga  | ggttattttat | tgggtgagaaa | ttaatgtaaa  | 600  |
| attttattgt  | atagtattta  | tgttgggtatg | aatgggtttgt | tttaattttt  | tgtattttta  | 660  |
| aaaatggggt  | tattttatat  | aataattttt  | tattttgtcg  | tttttgaaat  | ataggtaatt  | 720  |
| tttttattgg  | tcggttttatt | tcggaatttt  | ttgtttttta  | gtttttttaga | tgtgtttatt  | 780  |
| ttatttttat  | tttttttttt  | tattatacgt  | ttgatttttg  | tgcgtatttg  | agttttataat | 840  |
| ttttgttaag  | attttagtgg  | atttcgagaa  | tagattgtga  | tttgtttaagt | atataaattt  | 900  |
| taacggggaa  | gggtttttat  | tagacgtttt  | ttttaaagaa  | ggttttttta  | cgaattttta  | 960  |
| attttacgat  | agagggaaat  | aaatattgaa  | cgatcgaatg  | attttttagg  | agttgatatt  | 1020 |
| tttgcgtttt  | agggggcgaa  | tttttagttt  | cgtttttcgc  | ggtttttttag | ttttttaaaa  | 1080 |
| gattaggtaa  | agattttaaga | gagtttaattg | taggaagagt  | aataatcgat  | gttttatagat | 1140 |
| aagggttagg  | gagaattttt  | attttagttt  | gtaattagta  | gttttagttt  | gttttttttt  | 1200 |
| ttaggtagga  | ttttgggaag  | tttatatcgg  | ggtgttgggg  | agaagcgggt  | tgtatttggt  | 1260 |
| tgagagatta  | ggtgttttcg  | gttttttttt  | ttttaagaga  | tgcggtgttt  | taagaataat  | 1320 |
| tatttttttt  | tttattattt  | tagcggggtg  | attttagttg  | cggttgcgcg  | cgtatgtcgg  | 1380 |
| ttcgaaaaaga | gtagttagtt  | gcgttttagt  | aaggggcgcg  | gtttttaatt  | ttcgtatggt  | 1440 |
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| tgaataagggt | ttgtaacgat  | atatatacga  | ataagtagag  | tcgttggacg  | tcgattgcgg  | 1560 |
| gataggagga  | ggcgggggaat | ggcgggggcg  | ggacgaggggt | tagtgatttg  | tcgatttttg  | 1620 |
| gtaggaagat  | gagcgtagag  | cgcgcgggtt  | ttttggaatt  | ttgggaaatg  | tagttaagag  | 1680 |
| tgattttatt  | cgttggaaga  | tttgtttttt  | aggggttatt  | tttgcggttg  | gaagtaatgg  | 1740 |
| gagttgttag  | gatttgtgta  | gaagaatagt  | taatttcgata | ttttgcgttt  | atttattttat | 1800 |
| ttgtcgtttt  | attattttatt | taataaacgt  | tttttggttt  | tagttgttga  | tttagagaaa  | 1860 |
| tagtatgcgg  | tttttatttt  | tgaggggttt  | ttagagatag  | tttttgggaa  | ggaaagtttt  | 1920 |
| tttttagggat | ggttaaagatt | tgttagtgta  | ataatttttg  | tattttttata | tgtaaatatt  | 1980 |
| aggggattgt  | taaaatgtag  | agttttggat  | ttttattggt  | tattttttta  | aatagaattt  | 2040 |
| taaggggtaa  | aaatattttg  | ataagtgttt  | ttaaatgatt  | ttgcgtttgt  | atgttgagaa  | 2100 |
| tagttatagt  | ttaatataa   | tttattgagt  | attttttgag  | ttttgatagg  | atttttaagt  | 2160 |
| tatttagagt  | tagatggtaa  | atttttaata  | acggtgtagt  | ttagatttgt  | gattaatgtg  | 2220 |
| tgtaagttag  | ttaatgggtg  | taaaataaat  | agatttttatt | ttcgttgggg  | agaaagagga  | 2280 |
| aaaatttttt  | gaaggaggat  | taggatttta  | agtggcgaatt | tttgtaaaga  | aagaagggtta | 2340 |
| ttataggttag | tataaatatt  | agtttaggtt  | ggggagaaaag | agggtaaagt  | tataaaagta  | 2400 |
| aagttagtaa  | gattatgttt  | agatgtttga  | attttgtggt  | gaaaacggtt  | ttaagtagga  | 2460 |
| ttatttttaga | gagtgggtggg | aatatatatta | tattatggaa  | a           |             | 2501 |

&lt;210&gt; 10

&lt;211&gt; 2470

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; chemically treated genomic DNA (Homo sapiens)

&lt;400&gt; 10

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| aaagatgatt  | aaaagtttaa  | ttgtttat    | gaagagttga  | tttttttatt  | tttgtaataa  | 60   |
| agggtat     | tagtagtt    | tggtttat    | gtttattcgg  | ttttttttgt  | ggttgtgtaa  | 120  |
| ggttataa    | tttgtgttt   | agtaaatttg  | tgtatgttta  | tttttttttt  | tgttattatt  | 180  |
| ttttttttta  | ttttgtttta  | ttattttgat  | gtaaaattat  | ttgttaattt  | tatttgaaat  | 240  |
| gagaaatttt  | aagggtttata | ttattttaa   | tttgttagat  | ttttattttt  | gttataatgg  | 300  |
| ttataatgtg  | ttgggtat    | ttagatttgt  | ttattaaaaa  | gatgtaaaat  | aaaataatga  | 360  |
| ttatttttgt  | ggattttttt  | ttattttttg  | agatgttttt  | tttggttgta  | ttattttttt  | 420  |
| attttttgtt  | tattgattag  | aggaggggtt  | ttaattatgg  | gtgaatttta  | tattttattg  | 480  |
| aagaggttat  | gttatatgta  | tattttttata | atataattta  | tatttatata  | gtatttttat  | 540  |
| tttttagtata | ttttttttta  | ttaattttaa  | taatattatt  | gtaagttagt  | ttgaagtaga  | 600  |
| ttgtaagtgt  | ttattttata  | attgtgaaat  | gaattaaaa   | gaaagggtaa  | agatttaaatt | 660  |
| atgatttaggt | ttgaaattaa  | tatataagat  | ttaatttttt  | ttaatataag  | atttttgtag  | 720  |
| gtgatttttg  | tttgtaggat  | tttttttttt  | tttttagatgt | tattggattg  | tattaggttt  | 780  |
| attgtagatt  | ttagtcgttg  | tagaattaat  | tagatttaag  | atgagttttt  | tgattttttt  | 840  |
| tggtagagtt  | ttttaattgt  | tgaattttta  | tattgtcgtg  | attagttagt  | gttataattt  | 900  |
| gtttgtttta  | ttttgtgtaa  | tggattttat  | attatagagg  | tattttttta  | atgttaagat  | 960  |
| gtttaagtat  | tgtttaagt   | taaattattt  | aatttttttt  | agttatttaag | taattaaagt  | 1020 |
| aggtaggatt  | ttattttgtt  | taaaatgatt  | tgatttttaa  | taaaaagaga  | atgtggattt  | 1080 |
| tttgaatttt  | atttggttta  | ttttaatata  | attttttagta | ttttataatt  | ttttttaaag  | 1140 |
| tttttttatt  | tggttatttt  | ttgtattttt  | tttgtttttt  | tttttttttt  | ttagttataa  | 1200 |
| taattgttag  | atttttgttt  | attttttttt  | gatagttttt  | atttttaagg  | ttattttatt  | 1260 |
| tttttaggta  | ttttttgggt  | ttagtttgag  | tatagtagat  | tttaagatta  | tatatgttat  | 1320 |
| agtatagggt  | atttatagtt  | attttttgaa  | taaatgtgat  | tgaattttat  | gttagtaatt  | 1380 |
| tttattttatt | attttttttat | taaaaagggt  | taaagttttt  | atttaatgtt  | tttttttatg  | 1440 |
| tttattttgt  | taaatgattg  | ttttttaatg  | atatttttaga | atttttagaat | tattttatta  | 1500 |
| tggaggatgt  | gtaagattag  | ttttttatta  | aataaaaaagt | gtgaaatgga  | atatgtaatt  | 1560 |
| ttattaattt  | atttttgggt  | taaaattttg  | tgattattag  | ataaaattta  | gaaataaaat  | 1620 |
| agtattatta  | atataaataa  | atttttatta  | taatttatatt | ttttaagttt  | tgtttgtaag  | 1680 |
| aatgggtaaa  | atatttttta  | aattttgaag  | aaattattat  | ttgatagaaa  | gttttaattta | 1740 |
| tttgtgagaa  | ggtaaatgta  | tttagatata  | attaaagttt  | ttttttttat  | tttaattttta | 1800 |
| tttattttga  | attaagattt  | tattgtttta  | tttttttaga  | tgttgttatt  | tgaataatat  | 1860 |
| tgttttgaga  | ttaaaaatta  | gtatattaat  | ataatttttt  | ttaaacgttt  | taagagtttt  | 1920 |
| gttttttttt  | tttttttttt  | taaaaataag  | tagttattaa  | attttttagt  | agtgaatttt  | 1980 |
| aaaatttttt  | ttaattttat  | aggtttaagg  | gtagttaagg  | atgggtgtag  | ttttatatga  | 2040 |
| ttagttgtta  | aagtaagttg  | aggatttgaa  | gatggagaat  | ttaaattttc  | gataagagtt  | 2100 |
| agaagataat  | tttaattatt  | ttataaaaatt | ggaaattgag  | gtatttaata  | tgaaggattt  | 2160 |
| aagattgtga  | tttttaattg  | tagttttattt | atttttattt  | agtatttttt  | tttgtaaatt  | 2220 |
| tgaggtaaga  | tattttattt  | aaaagtgtat  | tttaaatata  | gtaataatat  | gtaaattttt  | 2280 |
| ttttgtaaaa  | gttagtattt  | atatttttaa  | ataagatata  | ttgaatttat  | ttagtgaatt  | 2340 |
| atataaagaa  | aataagtgt   | aaattttta   | ggttagttag  | tttttagttt  | tttttaagat  | 2400 |
| taaagagaag  | agattaaata  | tagtattatt  | gtattgaggt  | aagggttttt  | gtgtagttta  | 2460 |
| tagaaattag  |             |             |             |             |             | 2470 |

&lt;210&gt; 11

&lt;211&gt; 2470

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; chemically treated genomic DNA (Homo sapiens)

&lt;400&gt; 11

|             |             |             |            |            |             |     |
|-------------|-------------|-------------|------------|------------|-------------|-----|
| ttagttttta  | tgaattatat  | agaaaaattt  | gttttagtat | agtgatgtta | tatttggttt  | 60  |
| ttttttttta  | attttaaaaa  | gaattaaaga  | ttaatagttt | attggagttt | tatatatttt  | 120 |
| ttttttatat  | gattttattga | atgaatttaa  | tatatttttt | ttaaaaatat | aaatgttaatt | 180 |
| ttttgtaaga  | aagagttttat | atattattgt  | ttaattttaa | atatattttt | aagtaaaagt  | 240 |
| ttttattttta | agttttataag | agggaatatt  | gaataaaaaa | ggataaatta | taattaaaag  | 300 |
| ttatagtttt  | gatattttta  | tatttagatgt | tttagttttt | agttttgtaa | gatgattgga  | 360 |

## 12496480\_1.TXT

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| attatTTTTT  | agTTTTtGtC  | gaagatttga  | gtTTTTtatt  | tttagtggtt  | taatttggtt  | 420  |
| taataattga  | ttatatgaag  | ttgtagttaa  | ttttgggtat  | ttttggattt  | ataagggttaa | 480  |
| aaaggatttt  | gaaattttatt | attaaaaaat  | ttagtgggtt  | tttggtttta  | aagaaagggg  | 540  |
| taaaggaaat  | aaaatttttta | agacgtttta  | gaagaattgt  | gttaatatgt  | tagtttttgg  | 600  |
| ttttaaaata  | atattgttta  | agtagtagta  | tttaagagga  | tgaaatagt   | gagtttttagt | 660  |
| ttaagataaa  | tgaaatttaa  | atagaagaga  | gaatttttagt | tgtgttttgaa | tatatTTgtt  | 720  |
| tttttataga  | tggattaaat  | tttttattaa  | gtaataattt  | ttttaagggt  | ttaaagatat  | 780  |
| tttattttatt | tttataggta  | aaattttagga | aatataatta  | tgataaaaaat | ttattttatat | 840  |
| tagtaaatatt | atTTtatttt  | tgaattttat  | ttgatagtta  | tagaattttta | gagtttagaat | 900  |
| ggattaatga  | gattatatat  | tttatttttat | atTTtttatt  | tgataaaaagg | ttattttttat | 960  |
| atattttttta | tggtgaaata  | gttttgaaagt | tttaagatgt  | tattaaaaagg | taattatttta | 1020 |
| ataaaatgga  | tatgaaggag  | agtatttaaat | gaagattttta | agttttttttg | ataggaagat  | 1080 |
| ggtaaataag  | aattattaat  | ataaagttta  | atttatattta | tttaaaagggt | tgattataat  | 1140 |
| agtttatgtt  | atgggtatat  | tgggttttggg | atttggttgtg | tttaaaattga | ggttaaaaga  | 1200 |
| tattttaaaga | gaatggatga  | tttttaggagt | agagatttgtt | aaagagaaat  | gaagtagagt  | 1260 |
| ttggtagtta  | ttatgattgg  | gaaagaagag  | gagagataaa  | gaagatataa  | aagatagtta  | 1320 |
| ggtaagagga  | tttttaggaag | aattatagaa  | tgttaggagt  | tatattaaga  | ttaattaagt  | 1380 |
| aagatttagg  | agattttatat | tttttttttta | gttttaggtta | aattatttttg | gaataaataa  | 1440 |
| aattttgttt  | atTTtaatta  | tttaatagtt  | aaaaagttat  | aagtagtttg  | tattttaagta | 1500 |
| atattttaa   | atTTtgatat  | taaaaaaatg  | tttttgtaat  | atgaaattta  | ttatataaaa  | 1560 |
| taaggtagat  | aggttgtaat  | attgggttagt | tacgataata  | ttggagttta  | gtaattggaa  | 1620 |
| gatttttatta | aaggaaatta  | ggggattttat | tttagatttta | gttagtttta  | taacggttag  | 1680 |
| aattttatagt | aaatttggtta | taattttaatg | atattttgagg | aggaagggga  | gttttgtagg  | 1740 |
| tagggattat  | ttataaaagt  | ttttgggtga  | aaaaaattga  | gttttgtgtg  | ttaatTTtag  | 1800 |
| gtttgggtat  | gattttaattt | ttgtttttttt | atTTtaattt  | atTTttataat | ttgtaaatga  | 1860 |
| atattttataa | tttgTTTTaa  | tataattttat | agtgatatta  | ttaggattaa  | taaaaaaagg  | 1920 |
| tatgtttaaaa | ataaaaagtat | tatgtaaatg  | taagttatat  | tatgaaaaata | tatatgtaat  | 1980 |
| ataattttttt | tagtaagata  | tagggtttat  | ttatagttaa  | gattttttttt | ttgattaatg  | 2040 |
| ggtaaggggt  | gaagaagtaa  | tgtagttaaa  | ggagatattt  | taaaaaataaa | ggaaaaattt  | 2100 |
| ataggagtga  | ttattattttt | gtttttatatt | tttttaataa  | gtaggtttga  | aaatattttag | 2160 |
| tatattataaa | atttatatgat | agaggtaggg  | atttgataga  | atttgaataa  | tgtgaatttt  | 2220 |
| aaaattttttt | atTTttaaata | aaatttaatat | gtaatttttat | attaaaaataa | taaaaaataaa | 2280 |
| taagagaaaa  | ggttagtaata | gagaaaaaaa  | tgggtatgta  | taagttttatt | gagatataga  | 2340 |
| agttataaatt | ttatataaatt | ataaaaagag  | tcggatgggt  | aagatgagta  | gagattgtta  | 2400 |
| aaagtattttt | ttatttatagg | aataaaaaaaa | ttattttttt  | agatgaataa  | ttaaatttttt | 2460 |
| aattatttttt |             |             |             |             |             | 2470 |

&lt;210&gt; 12

&lt;211&gt; 7001

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; chemically treated genomic DNA (Homo sapiens)

&lt;400&gt; 12

|             |             |             |             |             |             |     |
|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| aatgtaatgg  | aaaaagagag  | attgtaaagt  | tagaagggtt  | aggaattggt  | ttttgattag  | 60  |
| gtgtggaagg  | taagggaaaa  | ttagtttttcg | aagaagatag  | tgagattttta | atTTgggtgg  | 120 |
| ttggagagat  | agtgatgttg  | ggtatagata  | cggggaagtt  | gagaggaata  | ttatgtttga  | 180 |
| gaatgggtgat | ttatatTTga  | ataagtttgt  | aatgttttagt | agatcgttgg  | aaaagtgggg  | 240 |
| ttggagatat  | atttaacgga  | ggagtttagat | taattttttat | tttttttttat | ttgagagagt  | 300 |
| tagtaagtta  | cggtttgaac  | gtgtgtgttt  | agtaggagag  | ggtagggagg  | gaagttaaga  | 360 |
| gagttgggag  | ttcgagtga   | gtttttgtta  | aaggtagaag  | aggaaagtcg  | gcgtagtata  | 420 |
| gtatatTTTT  | ttattttatgt | ttattaagtt  | tagggataag  | gtttatttaag | atgagtttgg  | 480 |
| aagagaatgt  | tggagagaaa  | gtggtttaaga | aaattgtttt  | tattgaattt  | tttgggttaa  | 540 |
| ttttgattgt  | aagtttttga  | ataattaaag  | tttgtgagga  | gatagttaat  | ttttttattt  | 600 |
| ttttttatgtt | aatagtgaat  | aattgtagat  | ttttttttttt | ttttttttttt | tttttttttgt | 660 |
| ttttttttttt | ttttttttttg | aatattttttg | ttttttttttg | ggattgggtt  | agagtatggg  | 720 |
| tggttattgt  | tgattttatag | gaggtattat  | tgttattta   | aaagggtaat  | agttttttttt | 780 |
| tttaatatatt | atTTtatattt | agtattttatt | tttaatatatt | attatggaga  | gagtttttttt | 840 |
| gtgttttaaat | attgtaatat  | tgggggtttt  | ttaaagtata  | aaaatatata  | tttgtatgat  | 900 |
| ggattattta  | atattttttat | ggtttttttat | ttttttttttg | tattgggtttt | aagagttatt  | 960 |

## 12496480\_1.TXT

|             |             |            |            |             |             |      |
|-------------|-------------|------------|------------|-------------|-------------|------|
| tataaaat    | ttagtaattg  | tatagtg    | taggg      | gatcgg      | ttttgg      | 1020 |
| gtgattag    | ttatttaata  | tttaagg    | tgattaat   | ttggtaataa  | agttttt     | 1080 |
| gggtgttat   | tggttttggga | ttttgagc   | gggtatt    | ggagtatt    | agtattgc    | 1140 |
| gttagtatta  | tgggtcgagag | aatagttgag | aaagtgg    | agaggtggat  | ttatgtgaac  | 1200 |
| gttattggga  | aatgagagat  | ttcgttt    | attacgg    | gtgtaattcg  | aaagtttaaa  | 1260 |
| attagtttaa  | aataaaaggta | tttatt     | ttttatgt   | atattttagg  | tttttaataa  | 1320 |
| tacgtat     | ttatatgt    | atagaaagta | gttaattgag | ttatttatgg  | aaaggtttgt  | 1380 |
| gggtttggt   | aacgaagtgg  | aggagtatta | tattttag   | ggaaatatat  | ttttagaatg  | 1440 |
| ttaaaatatt  | tatttttaaag | tttgg      | tggtgtaatc | ggaggtatgg  | taatgt      | 1500 |
| gtttagagat  | tgggggttag  | ggttagtaag | gtatttgatt | tatatgtatt  | ttagaagg    | 1560 |
| tttattgtta  | aattatatt   | tttcggaaaa | attatttatg | ttttatt     | taaatttgat  | 1620 |
| at          | ttttgattgg  | tattttat   | tagtcgtaag | attatgatt   | atagtaag    | 1680 |
| tg          | tttgtttggg  | gtggtagtag | aaagtatagg | gtatttt     | gttttaagg   | 1740 |
| gtaggggtaa  | aggggttggg  | gttttt     | tttagtatag | tttttttgg   | ttgtgtata   | 1800 |
| ttgtttttg   | tgagtagata  | gtaagtt    | ttttatt    | tattgttatt  | tatttagc    | 1860 |
| tggtgtagtag | tttagttgcg  | tggttg     | gaggggtgtg | taagtgt     | gtttattgg   | 1920 |
| tg          | tttttgtta   | ttttacgtat | aaatatatt  | atata       | tttgttag    | 1980 |
| ttatatattg  | agttattcgt  | atatgcgagt | atatttt    | tttttt      | at          | 2040 |
| tttttgatt   | ttataagtt   | atggaatatt | tttggaaga  | cgttttgat   | ttagtaggg   | 2100 |
| agg         | tgatt       | ttttgtag   | ttagtatt   | gagaaagtaa  | tttatt      | 2160 |
| tggttagt    | ttgtatt     | gtagggagat | gaggattgt  | gtttttatg   | ggggtatgtg  | 2220 |
| tggttttt    | tttttt      | ggatttgtag | gattttt    | gttatttgta  | tataatttg   | 2280 |
| taggtttata  | tttttaaga   | gttttatgaa | gtgtttttg  | tatgtgt     | aaaaagg     | 2340 |
| ttgaaaattg  | aaagtgtgat  | ttatggaaat | taaattatt  | gtaaaaaatt  | gttttgaaa   | 2400 |
| gtaatgattg  | ttggttataa  | agggaaatat | ttgcgatgta | tttaatgtgt  | ttttaatt    | 2460 |
| ttatttg     | ataatttata  | gttattaatg | ttaaattcga | ttttgg      | agttatatt   | 2520 |
| gatatattgt  | taataattgg  | ttattttgt  | aagaattaga | taaaatgtat  | at          | 2580 |
| aaatagttaa  | aaatgtaatt  | tttagtaata | gtaagtttg  | tatttagata  | gattatgaat  | 2640 |
| at          | atattttgt   | gggtgtttg  | gatagtaatt | aaaataaagt  | attgatag    | 2700 |
| gtattagagt  | ttattagg    | gtagtaaagg | aagtttatt  | aaaagtataa  | attatttaag  | 2760 |
| attatagacg  | tatgatatat  | tttatttatt | ttttgttt   | ttaatatgta  | tatatatata  | 2820 |
| tatatatata  | tatatatata  | tatatgtgtg | tgtgtatgtg | cgtgtgtatg  | tttaatt     | 2880 |
| aat         | aaat        | tttattt    | ttttatttg  | atatttgatt  | ttgtatatt   | 2940 |
| tag         | gaatcgagaa  | gatcgagttg | taggattaaa | ggatagatat  | gtagaaatgt  | 3000 |
| at          | tttgttag    | ggattagatc | gataatgtaa | tataattgt   | aaagtttgg   | 3060 |
| ttcgtgatt   | gaggttatgt  | ttggtatgaa | aagggtatat | tttatatt    | gtttttgaa   | 3120 |
| gttttggtg   | tataattaat  | ttgtggaagg | tatgaatatt | tatgtgcgt   | tttaattaaag | 3180 |
| gtttttttga  | attatt      | atatgagaat | ttttaatggg | attaagtata  | gtattgtgg   | 3240 |
| ttaatataaa  | tatataagtt  | aggttgagag | aattttagaa | ggttggtgaa  | gggtttatt   | 3300 |
| at          | tattttgtag  | aggaagaaat | tgaggtttg  | gtaggttgta  | ttttttgat   | 3360 |
| ggtaaaatgt  | agtttt      | atatgtatat | tttgaatt   | cgttttt     | tttttagatg  | 3420 |
| ttttttgtta  | gttttttag   | ttgttaaata | tagttgtttg | tggttggtg   | cgtatgtaat  | 3480 |
| cgtatat     | at          | ttttattc   | gttatagtg  | agtttt      | agggttatt   | 3540 |
| tatgtatata  | ttacgtatt   | ttagttaacg | aggaggggga | attaaataga  | aagagagata  | 3600 |
| aatagagata  | tatcggagtt  | tggtacgggg | tatataaggt | agtataattag | agaaagtcg   | 3660 |
| tttttg      | cgtttttcgc  | gtttatt    | agtttagtt  | tttttgggt   | at          | 3720 |
| gattttcgtg  | cgttttcgt   | ttttggtcgt | gaaatttag  | ttttatttag  | tagcgacgat  | 3780 |
| aagtaaaagta | aagtttaggg  | aagttgt    | ttgggacgt  | tttaaatacga | gttgtgtttg  | 3840 |
| gagtgatgt   | taagttaatg  | ttagggtaag | gtaatagtt  | ttggtcgt    | tttagtatt   | 3900 |
| ttgtaatgta  | tatgagttcg  | ggagattagt | at         | ggaggttcg   | gagtttagga  | 3960 |
| gttggcggag  | ggcgttcgt   | ttgggattgt | at         | gtcgggtcgt  | tcggttttat  | 4020 |
| cggattcgt   | ggttttcggg  | gtagggtcgg | ggttagagtt | cgcgtgtcgg  | cgggatatgc  | 4080 |
| gttgcgtcgt  | ttttaatt    | gggttgtgt  | tttttttag  | gtggttcgtc  | ggtttttgag  | 4140 |
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| tcgcggtcgt  | cgttaacgcg  | taggtttacg | gttagatcgg | tttttttac   | ggtttcgggt  | 4440 |
| ttgaggttgc  | ggcgttcgg   | tttaacgg   | tggggggt   | ttttttatt   | aatagcgtgt  | 4500 |
| tttcgagttc  | gttgatgtta  | ttgtattcgt | cgtcgtag   | gtcgttt     | ttgtagtt    | 4560 |
| acggttagta  | ggtgtttat   | tatttggaga | acgagtttag | cggttatac   | gtgcgcgagg  | 4620 |
| tcggttcgtc  | ggtattttat  | aggtattcgc | gttcgcgtc  | ttcgtcggg   | tggtcgtcgc  | 4680 |
| gttcggtagg  | agggaggag   | ggaggagg   | agaaggag   | gtttaggag   | ttgcgggag   | 4740 |

12496480\_1.TXT

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| ggttttgcgt  | gtagttcgcg  | ttgcgttttag | agttaagttt  | tttcgtcggg  | tagttgaaaa  | 4860 |
| aaacgtattt  | tttattttatt | tatcgtttcgt | gcgagaggta  | gattcgaag   | ttcggggttt  | 4920 |
| ttaataaaaat | atacgtttgg  | aaatttagata | aagtagtagt  | tatttgtggg  | ggaaaaatatt | 4980 |
| tttaggtaaa  | taaatacggg  | gcgtttttgag | ttatttggga  | aggtttcggt  | tttggtattt  | 5040 |
| aaagttgggg  | gtgttttgag  | ttagtagagt  | ttagtagagt  | tttattttatt | tttttaaatgt | 5100 |
| ttttgttttaa | tgtgtttttt  | aaattttttt  | ttatttagat  | tatttgattg  | gaaatatgtt  | 5160 |
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| tttacgtttt  | gggggttttag | agagcgattg  | ggagttgaat  | gggtttgatt  | tcggagtttag | 5280 |
| ttggttgagt  | tcgcgtttgg  | gcggatttgt  | ggtatgtgat  | ttttgatagt  | cggaaatttg  | 5340 |
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| ttgttagttt  | agtataaagt  | ttgtttttatt | cggggagaat  | gtttcggagt  | ggcgtgcggg  | 5460 |
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| ataagaattg  | tttttttttt  | tttttttttt  | tttttttttt  | tttttttttt  | agtttttttt  | 5640 |
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| aat         | ggttggtata  | ttttaaat    | at          | ttttaatt    | gggttaaaat  | 6120 |
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| gattaagttt  | aat         | aat         | attgtttgat  | gtgaaggag   | gtattggtat  | 6240 |
| gatgtgaatt  | ttataat     | atgatggatt  | ttagaaatta  | tttttttttt  | tatttaattt  | 6300 |
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| tg          | tatat       | gtattatatg  | at          | at          | taataaaaaa  | 6540 |
| agagataagg  | aat         | ttaaaaaa    | aat         | aat         | tgtgtggaaa  | 6600 |
| tttagtttta  | gaatgatttt  | ttttgtgttt  | tattttttcgg | attatttttt  | tttttttgtt  | 6660 |
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| gatagatatt  | atttagtatt  | tttttttttt  | tagttttttt  | gttttaaata  | ttttgggtat  | 6780 |
| aaaggaaagg  | attgattggg  | tttttttagg  | aaattttaag  | ttttttaagt  | agttttttaa  | 6840 |
| agttttgggg  | ttgaaagtag  | tg          | ttgtttgtta  | tgatttagag  | ggttatgaat  | 6900 |
| ttagtttagt  | gagtttagaa  | tattttttta  | aaggattaaa  | atggaaagga  | atataataga  | 6960 |
| aaatattaga  | gtgtatggt   | tttcgtaagg  | ataagttttg  | t           |             | 7001 |

<210> 13

<211> 7001

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 13

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| tttttagtttt | tttaaaaaat | at         | tattaaattg | agtttatgat | tttttgggtt  | 120 |
| atgataagta  | gtttgaaaat | attgttttta | gttttaaaat | ttttgagaat | tatttaagaa  | 180 |
| at          | tttaaaaga  | gtttaattaa | tttttttttt | tatat      | gttatttaag  | 240 |
| tagaaaaatt  | gagaggggaa | aaatattaaa | taatat     | ttat       | aat         | 300 |
| gatgtttttt  | ttttttgttg | gataataata | ggtagaattt | taataaaaga | ggaaagataa  | 360 |
| ttcgggaaat  | aaaatatagg | aaaaattatt | ttaaaattga | at         | agagttttat  | 420 |
| ttgtgtaagt  | ttttttttta | at         | ttttgtttt  | tttttttatt | at          | 480 |
| tg          | ttatgtaatg | tagaaagtgt | aagatagggt | atattatatt | gatattat    | 540 |
| attattggga  | tgatgaataa | ttttgaataa | gatgcgattt | tttttgtatt | tgattagggt  | 600 |
| tattttgtaa  | ttattagtaa | ggtagtaaat | aat        | ggagtagttt | tattagtggt  | 660 |
| tattgaaatt  | tagtagtatt | aat        | aaaagaattg | aaaattaaat | agggaagaaa  | 720 |
| atggtttttg  | gagtttatta | taaggttatg | gaatttata  | tatttagtg  | ttttttttta  | 780 |
| tattaagtag  | ttttaaatgt | tgtgtggaat | tagattttat | cgttgatttt | tgttttttta  | 840 |



## 12496480\_1.TXT

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| ataagtaaaa  | ttaatttgaa  | atatgttaat  | ttttaaaagt  | tttgtttatt  | gtttgttttt  | 960  |
| tgagtaaaga  | tagtttggat  | ttgcgtgggt  | gtgggatggt  | ttaaattttt  | ttaaggcggt  | 1020 |
| tgaagatgta  | tattgaatat  | ttttagaatt  | tgttttttag  | tatttttttg  | ggttaaattg  | 1080 |
| tatttttagtt | tttttttttt  | tgttataaat  | attttttgaa  | atagaatatt  | gaataaaaaat | 1140 |
| tggtttacgg  | tttataaggt  | agaaagatat  | agggatatta  | gttcggatat  | tagtgtatag  | 1200 |
| ttgggaaatg  | tttaatttag  | gatttagtta  | tgtggcggtt  | tgaagttttt  | aaatttagtt  | 1260 |
| cggggtatat  | ttgttttgtg  | gttatttagg  | aaggtgttta  | ttagaagcgt  | ttatttaatt  | 1320 |
| tttttgtagg  | tttattagga  | aaataaaaaa  | taaaaataaa  | aaggagaaat  | tgggtaagag  | 1380 |
| aaaatgggag  | ggagaggaga  | gggagaaaga  | ataatttttg  | tagggaaaaa  | aattaaaatg  | 1440 |
| aggatatata  | attttcgtta  | ttgaagttat  | aaagtggttt  | tttgtgtttt  | ggatcggtcg  | 1500 |
| cgtttttttt  | atagtgggtg  | cgagggcgtg  | attttgggtg  | attcgtacgt  | tatttcgggg  | 1560 |
| tatttttttct | gggtgggata  | ggtttgttat  | tgggttggtg  | ggagattatt  | tttaagtatt  | 1620 |
| tgtgttttta  | tatggtttgt  | tttaaattcg  | cgggatattt  | ataaattttc  | ggttgttaga  | 1680 |
| agttatatgt  | tagtaattcg  | ttttagcgcg  | gatttagtta  | gttaattttc  | aaattagatt  | 1740 |
| tatttaatttt | ttaatcgttt  | tttaaagttt  | taggacgtgg  | gggtggggagg | aggggaaagc  | 1800 |
| gggtgatagg  | aatcgttttt  | tagaaagtta  | ttattatagt  | tgatataatt  | ttaaattaaat | 1860 |
| agtttagatg  | aaaggaaatt  | tggggagtat  | attaaataaa  | aataattaaa  | ggataaataa  | 1920 |
| aattttgttg  | agttttgtta  | attttaaaata | tttttaattt  | taaagttaa   | gagcgagatt  | 1980 |
| tttttaagtg  | atttaaagcg  | tttcgtgttt  | atttgttttg  | aggtgttttt  | ttttataaat  | 2040 |
| aatgttgttt  | ttgttttgtt  | ttttaacgtg  | tgtttttgta  | ggaagttcgg  | gttttcgggt  | 2100 |
| ttgttttttc  | tacggacggt  | aagtgggtgg  | agagtagcgt  | tttttttagtt | gttcggcgag  | 2160 |
| agaatttgat  | tttgaacgta  | gcgcgggttg  | tacgtagaat  | tttcgggttg  | ggtcgcgcgt  | 2220 |
| ttcgggtttt  | ttgcgcgtat  | tttcgggtcg  | cgcgtttcgc  | ggttttcgta  | gttttttagg  | 2280 |
| tttttttttt  | tttttttttt  | tttttttttt  | ttttgtcggg  | cgcggcgggt  | atttcgacgg  | 2340 |
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| tttggaaaaa  | gagtatagtt  | cgaggttaga  | ggcgacgtag  | cgtatgtttc  | gtcgatacgc  | 2940 |
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## 12496480\_1.TXT

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| ataaaaaaga  | aatagaaagt  | tataaaaaatg | ttaatgatgt  | tattatgtaa  | atatatgttt  | 6120 |
| ttgtgttttg  | aaagattttt  | agtattgtag  | tgtttgagta  | taggagagtt  | ttttttatag  | 6180 |
| ttagtattga  | aaataaatat  | tggatataaa  | taaataattga | aaagaaagat  | tgttatattt  | 6240 |
| tgttggtgat  | agtgggtgtt  | tttgtaggtt  | aataatggtt  | atttatgttt  | tagattagtt  | 6300 |
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| aaaggtagtt  | tttttaatta  | tttttttttt  | agtatttttt  | tttaaattta  | ttttgggtgag | 6540 |
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| ttttttttgt  | tggatatata  | cgttttagtc  | gtgatttatt  | ggttttttta  | ggtgaagaag  | 6720 |
| ggtaaagatt  | gattttggtt  | tttcgttgaa  | tgtgttttta  | gttttatatt  | tttagcgggt  | 6780 |
| tgttggttat  | tgtaggtttg  | tttaaatatg  | agttattatt  | tttaaatatg  | gtgttttttt  | 6840 |
| taattttttt  | gtgtttgtgt  | ttagtattat  | tgttttttta  | gttattttaga | ttaaaatttt  | 6900 |
| attgtttttt  | tcgaggggtt  | atTTTttttt  | gttttttata  | tttaattaa   | aggtaatttt  | 6960 |
| taagtttttt  | agtttttata  | tttttttttt  | tttattgtat  | t           |             | 7001 |

&lt;210&gt; 14

&lt;211&gt; 11001

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; chemically treated genomic DNA (Homo sapiens)

&lt;400&gt; 14

|             |             |             |            |             |             |     |
|-------------|-------------|-------------|------------|-------------|-------------|-----|
| ttaaagttaga | tgttttttta  | ttattttgtg  | ataggtttag | tatatTTTtga | gttttaatttt | 60  |
| atTTTtatagg | tttaatat    | tggagttaga  | aagtttttag | gtaaaaagtt  | tgaaggggggt | 120 |
| ttttttatgt  | tattagatgg  | atTTTtgtat  | ttttagaaga | ttttttatat  | taggaaagat  | 180 |
| taaagtatta  | aggtaatttt  | ttttggtttt  | ttgggataat | tttaggtttt  | ggtagagtg   | 240 |
| gttttgaagt  | ttttgtttta  | gttataatgt  | ttatatattt | ttggaattgt  | tttgtagggt  | 300 |
| ttgtttttta  | gtataaattt  | ttttttaagt  | ttattgttag | ttatagttta  | ttagtTTTgt  | 360 |
| ttagtataaa  | ttaaagaaatt | aagaattatg  | tattttacgt | tattttttta  | gagttatttt  | 420 |
| tttttaggat  | aaagtttagg  | gtttttgttat | tgggttttgt | taggagtcgt  | agtcgtagg   | 480 |
| gttgttttatt | atttaaatagt | tttcgttaagt | atattgtgaa | ggggaagtaa  | tgattagaga  | 540 |
| tagggtttagt | tgttttagttt | ttgtatgttt  | aggtgtatgc | gtatatattt  | ttatatagg   | 600 |
| taggggtgggg | tgggaagttt  | atTTTtggtcg | tgacgtttag | cgcgttttaa  | gagtgtaaat  | 660 |
| ttgcgggggg  | tattttattat | taagaatttt  | cgtagtaggg | tttaaatgat  | tttacgtgtt  | 720 |

## 12496480\_1.TXT

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| tttgtgctg   | atagtatatg  | taggtggtt   | atagtatttt  | tgggtaggt   | aaaggaagt   | 780  |
| cggcggttga  | tatttgtgtt  | tcgttttggg  | tttcgtcggg  | tattttgtaa  | ggaggggtg   | 840  |
| tttttgttgg  | agggtataga  | gatagggcgt  | attagtttta  | gttgaatttt  | gatgaagttt  | 900  |
| gtgtaagaat  | cgtttttgtt  | ttaaagaaat  | agagaaatta  | aatttttgata | ataggtttta  | 960  |
| ggtgagatgt  | tagtttattt  | gggttaggt   | tgggtatgta  | taaattattg  | tttgcgttta  | 1020 |
| tttaagataa  | ttttagttgt  | gattttttga  | gtattaggt   | tatagttggg  | tatttgtttt  | 1080 |
| tttttacgtt  | ttttttttga  | gtagtttaatt | tatttaagttt | atgaagaggt  | tggtgttgat  | 1140 |
| ttgggtattg  | tattttttga  | ttttttgttt  | aatttttagtt | tgagaaaggt  | taggtgtttt  | 1200 |
| ttattttata  | gggttcgtttt | gtaagatggg  | ttagtatgga  | tataggggtt  | ttgaggaatt  | 1260 |
| taggggtttt  | ttgaaaaatg  | gttttttggg  | tagtttttgg  | aaattgattg  | tttttgggtt  | 1320 |
| tttgtttttg  | atgtatata   | atatagttgg  | tgtttatttt  | gaatttatta  | ttgtttttgg  | 1380 |
| ttttgtatgt  | tttgggtgga  | taagggaaag  | atagaattat  | ttgggttttt  | tttgtttgtt  | 1440 |
| gttttagggt  | ttagtattga  | atgtagtttt  | aaggatatta  | tagaagtagg  | ggtaattgaa  | 1500 |
| ggtatatggt  | taggggttag  | gaatagttga  | gggattttga  | agagggattt  | ttatttaaag  | 1560 |
| taaaattagg  | ttgggtgtgg  | tggtttatat  | ttgtaatttt  | agtattttgg  | gaggttaagg  | 1620 |
| taggaggttt  | atttgatttt  | taggagtttt  | agattagttt  | gggtaata    | gtaagatttt  | 1680 |
| atttttatta  | aaaaaagaaa  | aaaaaaaatt  | agttaggtgt  | ggtggtgtgt  | ttgtagtttt  | 1740 |
| aattgttttag | gaggttgagg  | tgggaggatc  | gtttgagttc  | gggagattgt  | agttatagta  | 1800 |
| agttattatc  | gtgttattgt  | attttagttt  | ggggaattga  | gtgagatttt  | gttttaaaat  | 1860 |
| ataaaaaata  | aaaataggtt  | gggtacgttg  | gtttacgttt  | gtaatttttag | tattttggga  | 1920 |
| ggtcgaggcg  | ggtggattat  | ttgaggttag  | gagttttgaga | ttagtttgat  | taatatggag  | 1980 |
| aaatttcgtt  | tttattaaaa  | atataaaatt  | agttaggcgt  | ggtggtatat  | gtttgtaatt  | 2040 |
| ttagttattt  | aggaggttga  | ggtaggagaa  | ttgtttaaat  | tcgggaggtg  | gaggttgtag  | 2100 |
| tgaattgaga  | tcgtgttatc  | gtattttagt  | ttgggtaata  | agagcgaaat  | tcggttttta  | 2160 |
| aaaaaaaaaa  | aattagtaaa  | attatatttt  | aattgtatat  | tttgattata  | gtattttagt  | 2220 |
| tgagttggag  | tgaggggttt  | ttttggagaa  | ggtagtttat  | tttttttttt  | tgtttcggta  | 2280 |
| cgggggttat  | atltatttga  | gggtgagagg  | agtggagagt  | ggtgtatatt  | agtagttag   | 2340 |
| ttattagtgg  | atagagtagt  | atttggagtt  | agttttttat  | gttttatata  | tagtgagaaa  | 2400 |
| aattattgtg  | atatgatgtt  | taattttgat  | ttaaagttgt  | taaaaggtag  | ttttaggtta  | 2460 |
| ggtttttaatt | tgtagaggt   | atataggtag  | ttttttggtg  | ggtttttgt   | tttgtttgtg  | 2520 |
| ttgtttggag  | atttgggtta  | aagatttttt  | ttttttttga  | gacgaagttt  | tattttgtcg  | 2580 |
| tttaggttgt  | agtgtagtgg  | ttggattttg  | gtttatttga  | agttttgttt  | tttgggttta  | 2640 |
| atcgagtttt  | ttgtttttag  | ttttcgagta  | gttgggatta  | taggcgcgtg  | ttataataat  | 2700 |
| attcggttaa  | ttttttgtatt | tttagtagag  | atgggatttt  | attatattgg  | ttaggttggt  | 2760 |
| tttgaatttt  | tgatttttaag | tgatttcgtt  | gtttttattt  | tttaaagtgt  | tgggattata  | 2820 |
| ggcgtgaatt  | atcgtattcg  | attttagagat | ttttaattcg  | attattttatt | ttttatttta  | 2880 |
| tttagggatt  | ggattttttgt | cggaaggggt  | gagtggtgga  | tagggtagtt  | agggttttga  | 2940 |
| atcgattttt  | ttttttttag  | tttttttggg  | tttattgtat  | tagttttatt  | ttttgttgac  | 3000 |
| ggttagatagg | tttttagttag | aatgcgagtg  | ttatagatat  | agtttaagttt | agcgttgatt  | 3060 |
| aataattttgt | tttagaagaa  | tttttataag  | gtttttttga  | gaatgatttt  | gtgttttagt  | 3120 |
| taggagaggt  | aggggtttttt | ttgatttcgt  | tttggagttt  | ttttaagtat  | ttaaaattatt | 3180 |
| tgatggggat  | aaatggagag  | gatagatgag  | ggagttaggt  | ggagcgtttt  | agtagaatgt  | 3240 |
| tttttattta  | gaattcgttg  | ttattttgta  | gttagtaagg  | atgtgggggt  | aagaattaa   | 3300 |
| gttaggggtt  | tatagggaaa  | aggtaaaggg  | ggaggggtgg  | gaattttaagt | ttattttttt  | 3360 |
| ttttaagtat  | ttaaagggtt  | tttggatgga  | gaagagtatt  | ggagtaaaaa  | tttttagtata | 3420 |
| aatttttattg | gggatagttg  | gtaattttgt  | cgggttagta  | aaaataaatg  | gtgtgggttt  | 3480 |
| tggaaaaatga | gggttggagg  | ttgtgaataa  | agtagtggat  | gtgtttgttt  | agtatattaa  | 3540 |
| cgggaagaag  | tatttagatg  | ggaggagtat  | taggggtagg  | agaaatgtta  | gatagatttt  | 3600 |
| agtgttaggg  | taagaaggaa  | gattattttt  | tttgtagaat  | agggaggggt  | tagggatggt  | 3660 |
| gttaattttgt | ttttgtgatg  | gttttgagtt  | tttattttaat | aatgagaaag  | tttgtttttt  | 3720 |
| tttttttttt  | tggatgattt  | aggagttttt  | ggttgggatg  | tagtgatttt  | attttttagt  | 3780 |
| tttttttttt  | tggtgatgaa  | tttttttatt  | tttattttaga | aaatagattt  | ggattagagg  | 3840 |
| tattgtatag  | ttttttttagg | attttaaaagg | aggaagagtt  | ttttttttttg | tttttaaaagt | 3900 |
| tgtttgtttg  | aagaggattt  | taatagtatt  | tttagtcgga  | tgtatagtag  | gattatggaa  | 3960 |
| tttttttttt  | gtattatagg  | gatttatttt  | ttattttatt  | attgtttata  | aaaattgatg  | 4020 |
| gttttttttt  | tgagatagag  | tttcgttttt  | tttttttagt  | tggagtgtag  | tgggtgcgatt | 4080 |
| ttgggtttatt | gtaattttttg | tttttttggg  | ttaaagtaatt | ttttgtttta  | gttttttaag  | 4140 |
| tagttgggat  | tataggtgtt  | tgttattata  | attggttaatt | tttttgtatt  | tttagtcgag  | 4200 |
| acgggggttt  | attatttttg  | ttaggttggg  | tttgaatttt  | tgattttatg  | atttatttat  | 4260 |
| ttcgggtttt  | taaagtgttg  | ggattaaagg  | tgtgagttat  | tgtatttggg  | ttaaaattga  | 4320 |
| tgtttttttt  | ttttttttta  | atatataaatt | tgggattttt  | tagtttttta  | tttttttttt  | 4380 |
| tttttttttt  | ttttttttga  | gatagagttt  | tgttttttta  | tttaggttgg  | aatgtagtgg  | 4440 |
| tttagttttc  | atttatttga  | atttttgttt  | tttgggttta  | agtgatattt  | ttgttttagt  | 4500 |

## 12496480\_1.TXT

|             |             |             |             |             |            |      |
|-------------|-------------|-------------|-------------|-------------|------------|------|
| tttttttagta | gttgggatta  | taggtatata  | ttattatggt  | tagataat    | ttttgtat   | 4560 |
| ttagtataga  | cgggggtttt  | ttatgttgg   | ttggtaggt   | tcgaat      | ggttttaagt | 4620 |
| gatttgtttt  | tttttggttt  | ttaaaatgt   | gagattatag  | gtatgagt    | ttaagtttag | 4680 |
| tttttttttt  | tttttttgag  | atagagt     | attttgttat  | ttaggttgga  | gtgtagtgg  | 4740 |
| acgatttttg  | tttattgtaa  | tttttgttt   | tcggttgaag  | tgatttagt   | ttttaagtag | 4800 |
| ttgggattat  | agttatata   | tattatgttc  | ggttaat     | tgtatgttta  | gtagagatag | 4860 |
| ggttttatta  | tgttggttag  | gttgatttcg  | aatttttgat  | tgtaaatgat  | ttatttgttt | 4920 |
| tgggtttttt  | aagtattgg   | attagaggtg  | tgagttatcg  | tatttgggtt  | ttttttttat | 4980 |
| ttttgagata  | gagttttatt  | ttgttattta  | ggttggagt   | tagtggtacg  | attttgggtt | 5040 |
| attgtaat    | ttgtttttta  | ggtttaagt   | atttttttgt  | tttatttttt  | taagtagttg | 5100 |
| ggattatagg  | tgtgtat     | cgtgggttag  | tttttttttt  | aattgggttag | tgttttgtgg | 5160 |
| tttttttatt  | tttttatagt  | ggaaaatgg   | ttaggattga  | ttgatatgaa  | gataagttta | 5220 |
| ggggtttata  | tttaatttaa  | tttttgtatt  | taagtttttg  | gttaagattt  | tggcgtgttg | 5280 |
| agtattat    | attttgtaa   | gaattttgta  | aaattttatt  | tgaagtatta  | tttataat   | 5340 |
| tatttttttt  | attttaaata  | ggattttcgt  | tttatttttg  | ttaggtatat  | tgagttttat | 5400 |
| agtttttgtt  | tttttttttt  | gggtgttagg  | tttgggtttt  | tgagtttgg   | ggttatat   | 5460 |
| atgggtattg  | gtatatagtt  | tttcgataat  | ggggatattt  | aggaggtttc  | gagatatttt | 5520 |
| atagtttttg  | gttagtaatt  | tggatttttt  | tttttatttt  | tttaggtatt  | ttataattta | 5580 |
| gttttttttt  | tttttgtggg  | taaagtgttt  | ttgaatgttt  | atggtttaaa  | ataagatttt | 5640 |
| tttttttatt  | attttttaaa  | tttttttttag | atttattttt  | gaggaaggga  | atagaat    | 5700 |
| ttatatattt  | gtagtgtgtg  | ataggttaga  | atagggaaga  | ggtagagggt  | tagtttgggt | 5760 |
| tatataggag  | tgtagattga  | ggagttagat  | ttttttttgt  | tttttaagtt  | tttttaaa   | 5820 |
| tatttttttaa | tttttggcga  | ggattttttt  | ttttttatat  | tttttttttag | tttttttaag | 5880 |
| gagggagtag  | gagtattcga  | acgcggaaat  | cgaggtgtta  | gtttaaattg  | ttcggtcgg  | 5940 |
| tttagttata  | gttgataat   | gttcgggtta  | ggtttattat  | aagttatata  | gttgtttttt | 6000 |
| tcgtgtttaa  | tttgtttgtg  | atagaaatta  | aggggggttc  | ggtatttagt  | atttaggcgg | 6060 |
| tggaaatcgg  | gtttttacgt  | cggtttcgcg  | ggtaggtttt  | cggttaggat  | tcgcggggag | 6120 |
| ttacgtagtt  | aggagggtgg  | ggttgtttat  | cgttttagga  | cgcggtaacg  | gatcggggag | 6180 |
| ggcggagttt  | tagcgatcgt  | tttttttttc  | gttcgtcgg   | attttttgg   | ttttatttgg | 6240 |
| tttcggcgcg  | gtttgcgagt  | tagcgaggtt  | cgcgcggtga  | agtattgttc  | gagtttcgag | 6300 |
| ttcgagtttt  | tttggttgta  | gtagttattg  | ttcgtcgtgt  | tgttttaggt  | tatttcgaaa | 6360 |
| gaaggcgttt  | tcgtttcgtt  | tatagtcgta  | ttcgttcgtt  | tttttagttt  | gcgcgttcgt | 6420 |
| agtcgttta   | tatcgtttcg  | gtcgcgtg    | tgcgttagtc  | cgtgttagtg  | tgcgcgtg   | 6480 |
| ttcgggttag  | agtcgcgtcg  | taatcgttaa  | gattgaaacg  | tagatcgtcg  | ggatttagtt | 6540 |
| tttgttttat  | tggggttagga | acgtcggggc  | ggggatacgt  | acgtttcgtt  | tttaggaatg | 6600 |
| attttatcgt  | ttcggagttt  | tatttataga  | ttttatttat  | tatagggaac  | gggggcgggt | 6660 |
| gttagcgttc  | gggtaagcgt  | ataagagtgg  | tttttggtcg  | gaggcgagg   | cgggaagggt | 6720 |
| cgggaagtgc  | gcgtgcgcgg  | agtttgggtt  | agtttgggtt  | cgggttcgtt  | tgtagcgggt | 6780 |
| ggagtatttg  | cggagtcgg   | aatttaggtt  | tttttcgcta  | tttttcgcta  | gaattagtgt | 6840 |
| ttttgtgtcg  | tcgggaaatc  | ggtaattaga  | acgttttttg  | cgcgcggtat  | ttaggtagtt | 6900 |
| ttcagagaat  | tttgtattgt  | ggtttgttta  | ttttcgtttt  | ttttatacgt  | tttcgggttc | 6960 |
| gcgtttatta  | cgttcgtgtt  | tcgttttatc  | gcgggttttt  | agtttaggtt  | tcgggggttc | 7020 |
| taatagttta  | ggtagacgag  | cgcgcggtag  | cggtagtggt  | aggtgaat    | gtaatttgta | 7080 |
| gagaggtttg  | gcggtgaggg  | ggaggagt    | taggtcgggg  | aaatgtttcg  | gagattgaag | 7140 |
| ggaaattttt  | gggagagggg  | cgttgttcgt  | taggtttcgt  | aggttcgatt  | tatttttagt | 7200 |
| ggttattttt  | tattgttacg  | cggattttta  | tgttggttat  | ttgggcgttt  | ggaaatcgg  | 7260 |
| cgggaaggta  | taggttagaga | ggtttgttta  | atagttggat  | ttttatcgtt  | tagtatagaa | 7320 |
| tttttttttt  | ttttattgg   | aattaaaaaa  | ataataataa  | aaaattgcgt  | tttgtttttg | 7380 |
| ttattttagg  | tggagtgtaa  | tggcgcgatt  | tcggtttatc  | gtaatttttc  | ttttttgggt | 7440 |
| ttaaagcatt  | tttttgtttt  | agttttttga  | gtatttttaga | ttataggcgt  | tcgttattat | 7500 |
| gttttagttta | tttttgtatt  | tttagtagag  | acgggggttt  | attatgttag  | ttaggttggt | 7560 |
| tttaaaat    | tgatttttag  | tgattttatc  | gtttcgggtt  | tttaaaagt   | tgggattata | 7620 |
| ggttttaggt  | atcgtatttc  | gtttttttat  | gggaacgtat  | atggaatata  | tttgtttatt | 7680 |
| tattttgaagg | aaaaattaaa  | tattttta    | ttacgtttgt  | tttgtgggtg  | ttatttgttt | 7740 |
| ttattttttt  | tagattaaaga | tattggtttt  | tatatatttt  | aatttttcgt  | ttttattttt | 7800 |
| tttttttatt  | attttagtta  | ggtttgtttt  | tttttttag   | aaattgttcg  | ggatagggtt | 7860 |
| tttagcgatt  | tgtgtattat  | taaatggaat  | ttagtgtttt  | atttttttat  | tttatttttt | 7920 |
| tagtattatt  | tgaagtgtgt  | tttttttgat  | ttttagggtt  | tatatatttt  | tagttttttt | 7980 |
| tttatttttt  | gtagtttttg  | tttagttttt  | ttgtagattt  | tgattttaatt | tttatatttt | 8040 |
| acgatgaagt  | ttgggttttag | ttttgattat  | tgggttgggt  | tgtttatatt  | tatttgtttt | 8100 |
| agattttacg  | ttgaaatatt  | gattttaaat  | tttagattag  | attttttcgt  | ttagtatttt | 8160 |
| tatttaggat  | tttaaaagac  | gttttaagt   | aatatgggtt  | aaatttaatt  | tttttttttt | 8220 |
| tagtttttatt | gttatatttg  | tttagt      | ttttgtagt   | aaaaatgggt  | attagg     | 8280 |

## 12496480\_1.TXT

|             |             |             |             |             |             |       |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| tagttattgg  | agataaaaagt | ttaaattttat | ttttgatattt | ttttttgttt  | ttattttttga | 8340  |
| taaatatggt  | taaattattt  | tgtttttttat | ttttatggtt  | attttatttt  | tttttgagaa  | 8400  |
| cgttgtaaatg | tttttagtttt | gtttttttttt | tttttttttt  | tttttttgag  | atagagtttt  | 8460  |
| attttgctcgt | taagggttggg | gggtagtgggt | acgatttcgg  | tttattgtaa  | ttttcgtttt  | 8520  |
| ttgtgttttaa | gtaatttttt  | tatttttagtt | tttcgagtag  | ttgggattat  | aggtattcgt  | 8580  |
| tattacgttt  | ggtttatttt  | tttttatttt  | ttagtagata  | tgagggtttta | ttatgttggt  | 8640  |
| taggtttggtt | ttgaattttt  | gatttttaggt | gattttattcg | ttttcgtttt  | tcgaagtgtt  | 8700  |
| gggattatag  | gtatgagtta  | tcgcgttcgg  | ttttttgttt  | attttttgta  | ttttgttata  | 8760  |
| attttggtgtt | tttttttagtt | gaatttgtga  | tgtttttttg  | tatcggatga  | gaggggtttt  | 8820  |
| atgtatatat  | agattttggga | tattattttat | ttataagttt  | ttaaataggt  | tagagttagt  | 8880  |
| atgtttaatt  | tagattttat  | gttataataa  | tttggggagt  | ttttaaaatt  | tattgatgtt  | 8940  |
| taggggtttat | tttttagtagt | tgattttaata | gggttgcggg  | gggatttagg  | ttagcgggga  | 9000  |
| ggattgtaaa  | agtattttttg | gtgatttttag | ttggtgttta  | tttaggggag  | agtaattttt  | 9060  |
| gtttgttggc  | gatttttttag | ggtgtagaag  | gattgttggg  | tgtgtgggtt  | cgtgtatatt  | 9120  |
| ttagtatttg  | atttatttggg | ttagaaaagg  | gtgtttgtta  | aataaaagatt | taataaaatt  | 9180  |
| tttgtttgta  | gggggtttat  | taaaggtttt  | aaattttttt  | aggttttttt  | ttataggtgg  | 9240  |
| taattttttt  | ttatttttaa  | ggttttggag  | ggggttatga  | gtgtttgaga  | agaggttaagt | 9300  |
| ttgggaagat  | ggatttcgag  | gatagtaggt  | ataaattttt  | ttttaagaag  | ggttaaggta  | 9360  |
| ttttaaagat  | aagaaattta  | aaattagcgt  | atttttatat  | ataagtagtt  | atttttgttt  | 9420  |
| atttgtggtt  | tagatacgag  | tggagtgcga  | taagggataa  | attatttttcg | cgtatttttt  | 9480  |
| agcgcgtggg  | cgaaagtaac  | ggattttagtt | ttcgggagtt  | gttttcgtcg  | attttttttg  | 9540  |
| tcgcgatttg  | attcgcggcg  | attgcgttgt  | tttttggttg  | tttttttcgt  | tttcgtaggc  | 9600  |
| gcgcgggggt  | attattttacg | cgcgtattgt  | aggttttttc  | gtacgacgtt  | ttagatgaag  | 9660  |
| tcgttataga  | ggtcgtatta  | cgtgtgcgtg  | gcgggttttc  | cggttggaa   | gcggtgggtta | 9720  |
| cggttaggga  | ttagtgtcgt  | tgtgggggtt  | tacgcggtgt  | ttcgcgcgat  | gcgtagcgcg  | 9780  |
| ttggtacgtt  | ttagtcgggt  | gcggtttttt  | ttagcgcgtt  | tagcgggtgt  | tagtttttcgt | 9840  |
| agtttaaatga | gttttaggttt | tttcgatatt  | gttcggttgg  | gttcgtgttt  | cgttggtttt  | 9900  |
| gggcgttagt  | aagcgcgggt  | cgggcggggg  | tataggcggt  | gtttcgattt  | tagcgttttt  | 9960  |
| tttaggattt  | agattgggcg  | gcgggaagga  | gttgaggaga  | gtcgcgtaat  | ggaaattttg  | 10020 |
| gtgtagggat  | tgtgggggtt  | gaaggcgggg  | ttgggcgcgt  | tttcgtagag  | tttttttcgt  | 10080 |
| tttggttttt  | tttttttttt  | tcgttttttt  | tttatatttt  | atttcggacg  | gttataacga  | 10140 |
| cggcgatcgt  | aaagtattac  | gcggagatat  | tcgtgttttt  | ggagggttagt | tttattgtgt  | 10200 |
| tagaggaaga  | gggttttttat | attcggtttt  | ggtttttttt  | gttcggtttt  | ttgaagtaat  | 10260 |
| atatttggtt  | tattttattgg | gtgggtagg   | aagtttcagag | tttttatttg  | gggtgaggag  | 10320 |
| gagggagatc  | ggttagtagt  | tttatcgttc  | gttttggttt  | ttattgcgga  | gattgggggtt | 10380 |
| tcggtagagg  | ttggatcgtg  | attttgaggt  | ttaggggtgt  | attttggggtg | gattttttttg | 10440 |
| gtatgggtgg  | tcggtttttta | gtaattgtag  | tttttatttg  | gttttggtat  | tttgggttgt  | 10500 |
| taggatataa  | gttttttttat | gtttttttta  | gtgtttgatt  | tgggtattttt | tgtaggtagg  | 10560 |
| tgggtattga  | ggatggtaaat | gtatgtgggg  | gatgtgggag  | taggggttag  | aggtttaagg  | 10620 |
| tttttaggata | tttttatttg  | tagtaaatatt | atttattttg  | gtatcgtgag  | tagcgttttag | 10680 |
| aagtttttgt  | attgtagtaa  | gtatagcggg  | gtcgtttttg  | agttattgtt  | tttagtatat  | 10740 |
| ttagtttgta  | ggtttttagtt | tatttggggg  | aaagttagga  | aggtttgatt  | ggttttggaa  | 10800 |
| ggtgggggta  | ttttattttat | atttatgttt  | tttgattttt  | ttttattttt  | tttgttattt  | 10860 |
| ttataggttt  | tatttttcgcg | tttgtagtcg  | taggtttttgt | tttgaggggt  | tgaatatatg  | 10920 |
| ttggagttgg  | tgtttggtaa  | ttgtttgtta  | tttggtttttg | tttttttcgt  | ttagtcgttt  | 10980 |
| ttagattttt  | gggattcggg  | a           |             |             |             | 11001 |

&lt;210&gt; 15

&lt;211&gt; 11001

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; chemically treated genomic DNA (Homo sapiens)

&lt;400&gt; 15

|             |             |             |             |            |             |     |
|-------------|-------------|-------------|-------------|------------|-------------|-----|
| tttttagattt | tagaaaatttg | ggagcgggtt  | gagcgagaaa  | atagaggtaa | gtggtaggta  | 60  |
| attgtttaagt | attagttttta | gtatgtgttt  | agtttttttag | agtaggattt | gcggttttag  | 120 |
| gcgcgaagggt | aagggtttgtg | gaaatggtag  | ggagggttgg  | ggggatgtag | gaggtatgga  | 180 |
| tgtgggtggg  | gtgttttttat | tttttaggggt | tagtttagatt | tttttgattt | tttttttaggt | 240 |
| gggttgagat  | ttatagggtt  | gatgtgttag  | aggtagtggt  | tttagagcgg | tttcgttgtg  | 300 |
| tttattgtag  | tgtagagggt  | tttaagcgtt  | gtttacgtag  | ttagaatgag | tggtatttgt  | 360 |

## 12496480\_1.TXT

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| gtaggtgagg  | gtatatttaga | atatttgatt  | tttaagtttt  | atatttatat  | tttttatatg  | 420  |
| tattgttatt  | tttaatat    | atattgtttg  | agggagtgtt  | aagttaagta  | ttgggaaaag  | 480  |
| tatggaaaga  | tttgtgtttt  | ggtagttag   | ggtgatagag  | ttaaatgagg  | gtttagttg   | 540  |
| ttgagggtcg  | attatattatg | ttaagggaa   | ttatattagaa | tgtatattttg | aattttaaga  | 600  |
| ttacggttta  | gtttttgtcg  | gagttttagt  | tttcgtagt   | gagagttagag | cgggcggtaa  | 660  |
| agttgttgat  | cgatattttt  | tttttttatt  | ttaaagtgaag | gttcgagatt  | ttttgtttta  | 720  |
| tttagtgggt  | aggttaagt   | gtttgtttta  | gtaaatcgga  | ttaggagggt  | tagggtcgga  | 780  |
| tgtggggatt  | ttttttttt   | agtatatga   | agttggtttt  | tagaaatacg  | ggtatttttcg | 840  |
| cgtggtgttt  | tgcggtcg    | gtcgttctg   | tcgttcgggg  | tggggtgtga  | ggaggggacg  | 900  |
| aaggagggaa  | ggaagggtaa  | ggcggggggg  | gttttgcgag  | agcgcgttta  | gtttcgtttt  | 960  |
| cgggttttat  | agtttttgta  | tttaggtttt  | tattgctggg  | tttttttttag | tttttttttcg | 1020 |
| tcgttttagtt | tggatttttg  | gggagggcgt  | gaagtcgggg  | ttcgtttttg  | ggttttcgttc | 1080 |
| ggttcgcggt  | tgtagcgtt   | ttaaagttagc | gaagtacggg  | tttaatcggg  | ttatgtcggg  | 1140 |
| ggagtttgag  | tttattgagt  | tgcgggaggt  | ggtattcgtt  | gggcgcggtt  | ggaagggtcg  | 1200 |
| tattcgggtg  | gagcgtgtta  | acgcgttgcg  | tatcgcgcgg  | ggtatcgcgt  | gtaattttat  | 1260 |
| acggtagttg  | gtttttggtc  | gtggttatcg  | tttttagttc  | gcgggggttcg | ttacgtatac  | 1320 |
| gtggtgcat   | ttttgtggcg  | attttattttg | gggcgtcgtg  | cgtaaagggt  | tgtagtgcgc  | 1380 |
| gcgtgagtag  | tggtttcg    | cgtttacgag  | agcggaaagg  | gtagttaagg  | ggtagcgtag  | 1440 |
| tcgtcgcggg  | ttaaagtcg   | gtagaggggg  | tcggcgggga  | tagttttcga  | ggattaggtt  | 1500 |
| cgttattttt  | gttttatcgt  | tgaagagtgc  | gcgaaaaatg  | tttatttttt  | gtcgtatttt  | 1560 |
| attcgtattt  | gggttataga  | tgagttagagg | tggttgtttt  | tatgtaaaaa  | tacgttgatt  | 1620 |
| tttaagttttt | tatttttaaa  | atgtttttggt | tttttttgag  | aaagggtttg  | tgtttattgt  | 1680 |
| tttcggagtt  | tattttttta  | ggtttgtttt  | tttttaata   | tttatgattt  | tttttagaat  | 1740 |
| ttttagggtg  | aagggaaatt  | attattttatg | ggagggagtt  | tggaaaaatt  | tagaattttt  | 1800 |
| ggtgggtttt  | ttgtaagtag  | gagttttgtt  | gagtttttat  | ttagtaaata  | tttttttttg  | 1860 |
| atttagttaa  | ttagatgtta  | aaatatgtac  | gtagttatat  | attttagtagt | ttttttgtat  | 1920 |
| ttttgggaat  | cgttagtag   | ttaaagggtt  | tttttttttg  | gtagatatta  | gttggaattt  | 1980 |
| ttagggtgtg  | ttttatagtt  | tttttcgtta  | gtttggattt  | tatcgtagat  | ttgttgaaatt | 2040 |
| aattgttggg  | agtggatttt  | aggtattagt  | aaatttttaa  | aatatttttaa | attattgtaa  | 2100 |
| tatggagttt  | gggttgagta  | ttattgtttt  | ggtttatttt  | ggaattttgtg | gatggatagt  | 2160 |
| gttttaggtt  | tgtgtgtgta  | tggagatttt  | tttattcggg  | ataagaggat  | attataaatt  | 2220 |
| tagttggggg  | gagtataaag  | ttgtgataga  | atgtaaaaga  | tgaataaggg  | gtcagagcgcg | 2280 |
| tggtttttatg | tttgtaat    | tagtatttcg  | gaaggcggag  | gcgggtggat  | tatttgaggt  | 2340 |
| taggagttaa  | agattagttt  | ggttaatatg  | gtgaaatttt  | atgtttatta  | aaaaataaaa  | 2400 |
| aaaaatgagt  | taggcgtagt  | ggcgggtgtt  | tgtaatttta  | gttattcggg  | agggttaggt  | 2460 |
| gggagaattg  | tttgaatata  | ggagggcggg  | gttgtagtga  | gtcagagatcg | tgttattgtt  | 2520 |
| tttttagtttt | ggcgatagag  | tgagattttg  | ttttaaaaaa  | aaaaaaaaaa  | aaaaaaagaa  | 2580 |
| taaggttggg  | atattgtagc  | gttttttaag  | agaaataaag  | tagttatgga  | gataagaagt  | 2640 |
| aggatgattt  | gggtataatt  | attagaggta  | gagataaggg  | agaaatttaa  | gataagtttg  | 2700 |
| gggtttttgtt | tttagtaatt  | gggagtttag  | tggttatttt  | tgttgtaaa   | aggaagtttg  | 2760 |
| gtaagtgtag  | tagtgaggtt  | gaagaaaagg  | gaattaaatt  | ttggttatgt  | ttatttgaaa  | 2820 |
| cgtttttttag | atatttttagt | gaaggtattg  | gtacggagga  | tttagtttga  | gggttttaggt | 2880 |
| tagtgtttta  | gtcgtggatt  | tggggtagat  | gaatgtagat  | agattaggtt  | agtgattagg  | 2940 |
| attgagttta  | gattttatcg  | tgagatatgg  | aagtttagtt  | agaatttcta  | aaggagttga  | 3000 |
| gtaggagttg  | tagggggtag  | gaggaaaatt  | gggagagttg  | agttttttggg | agttaaaagg  | 3060 |
| agtaagtttt  | aaatgatgtt  | gagggggtga  | gaatggagaa  | tggaaatattg | gattttattt  | 3120 |
| ggtagtatat  | agatcgttga  | ggattttgtt  | tcgggtagt   | ttttggagga  | agaggtaagt  | 3180 |
| ttgggttgag  | tgggttagag  | ggagagtga   | ggcgaaggat  | tagagtgtat  | agagattagt  | 3240 |
| gttttggttt  | gaggggagta  | gagataggtg  | ataattatag  | ggtagacgta  | ggttaaagg   | 3300 |
| gttttagtttt | ttttttaagt  | aaatgggtag  | atgtattttt  | tatacgtttt  | tagtgaagg   | 3360 |
| tcgggtgcgg  | tgggttaagt  | ttgtagtttt  | agttattttg  | aaggtcagag  | cgggtggatt  | 3420 |
| atttgagatt  | aggagtttga  | gattagtttg  | gttaatatgg  | tgaattttcg  | tttttattaa  | 3480 |
| aaatataaaa  | attagtttgg  | tatggtggcg  | ggcgtttgta  | attttaggtta | tttaggaggt  | 3540 |
| tgaggtagaa  | gaatcgtttg  | aattttaggag | gaggaggttg  | cggtgagtcg  | aaatcgcgtt  | 3600 |
| attgtatttt  | agtttgggtg  | ataaaagtaa  | gacgtagttt  | tttgttgttg  | ttttttta    | 3660 |
| gtttaatgag  | gaaaggggaa  | gttttgtgtt  | aggcgataga  | gatttaattg  | ttgagttagt  | 3720 |
| ttttttgttt  | gtgggttttc  | ggtcggtttt  | tagacgttta  | ggtgggtta   | attagagttc  | 3780 |
| gcgtagtagt  | gtgaggtaat  | ttattgagat  | aggtcgggtt  | tgcggagttt  | ggcgagtagc  | 3840 |
| ggtttttttt  | ttgggggttt  | tttttaattt  | tcgggatatt  | ttttcgaatt  | ggagtttttt  | 3900 |
| cgtttttatcg | ttagggtttt  | ttgtagattg  | taagtttatt  | tgttattatc  | gttgcgcgc   | 3960 |
| gttcgtttgt  | ttggattgtt  | gcgggttttc  | ggatttgggt  | tgggaatttc  | cgggtggagc  | 4020 |
| ggatacgaac  | gtggtgagcg  | cggggtcgag  | ggcgtatggg  | aagggcgagg  | atgggttagt  | 4080 |
| tatagtgtag  | gtattttcga  | gggttgtttg  | ggtgtcgcgc  | gtaaggagcg  | ttttaattgt  | 4140 |

## 12496480\_1.TXT

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| cgatTTTTcG  | gcggtataga  | gaggTTaatt  | ttgcgcgggg  | gttgggaggg  | gagtttggat  | 4200 |
| tgtcggTTTT  | gtaagtattt  | tattcgttGt  | aagcggattc  | gggtttaggt  | tgatttaggt  | 4260 |
| ttcgcgtacg  | cgtattTTTT  | gtattTTTTc  | gttttcgTtt  | tcggttagag  | gttattTTTT  | 4320 |
| tgcgTTTTgt  | cggacgttgg  | tattcgtttt  | cgttttttGt  | ggtaggtggg  | gtttgtgagt  | 4380 |
| ggagtttcGg  | agcgatgagg  | ttattTTTTg  | gggcgaagcg  | tgcgTgtttt  | cgtttcggcg  | 4440 |
| TTTTtGTTTT  | aatgagataa  | gagttagatt  | tcggcgattt  | acgtttttagt | tttaacgggt  | 4500 |
| gcggcgcggt  | tttggttcGg  | gcgtacgcGt  | atattgatac  | gcgtatacGt  | acgtacgcga  | 4560 |
| tcggggcggt  | ggttggcggt  | tacggacgcg  | taggattggg  | ggacggggcg  | gtacggttat  | 4620 |
| gggcgaggcg  | gaggcgTTTT  | TTTTcgaaat  | gatttggagt  | agtacgacga  | gtagtggTTa  | 4680 |
| ttgtagTTaa  | gaggattcGg  | attcggagtt  | cgagttagtT  | tttatcgcgC  | gaatttcgTt  | 4740 |
| agttcgtagg  | tcgcgtcggg  | attaggtggg  | agttaggggg  | tgTcggcggg  | cgggagggga  | 4800 |
| agcggtcGtt  | ggagtttcGt  | TTTTttcggT  | tcgttGtcGc  | gttttgggtC  | ggtgggtagt  | 4860 |
| tttattTTTT  | tggttacGtg  | gtttttcGcg  | ggttttggTc  | ggggatttGt  | tcGcggaatC  | 4920 |
| gtgcGtaaga  | tttcgatttt  | atcgttttaga | tgttgggtGt  | cggggTTTTt  | ttggTTTTtG  | 4980 |
| ttatagatag  | gttgaatacG  | gaaaaagtag  | ttgtatggTt  | tgtggtagat  | ttgagtcggg  | 5040 |
| tattatttag  | ttatgattaa  | agtcgatcga  | gtagtttGga  | ttagtatttc  | gattttcGcg  | 5100 |
| ttcgaatGtt  | tttGTTTTtt  | TTTTggggag  | attaggggag  | gatgtggaga  | gggaagagtt  | 5160 |
| ttcgttagga  | attgagaagt  | atgttttagga | aaatttgaga  | ggtagagaga  | gattttGttt  | 5220 |
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| ttattagttG  | ttggaatGtg  | gaagatttttG | TTTTTTTTtt  | ttagggTgga  | tttgagaaaa  | 5340 |
| gattttgggaa | tagataggaa  | agaagtttttG | TTTTggattTa | taagtatttTa | ggagtatttt  | 5400 |
| atttataggga | agggggaaaG  | ttagattata  | aaatGtttTa  | agaggtggaa  | aaagagattt  | 5460 |
| aggttattTaa | tttaggatttG | taaggtGttt  | cggaaTTTTt  | taggtatttt  | tattatcGga  | 5520 |
| gaattgtGtg  | ttagatGttTa | ttggTgtGat  | tattaggttt  | agagaatttag | gtttaggtat  | 5580 |
| taggaaaaaag | aaatagggat  | tgtgaagtTt  | agtatGtttG  | gtagaaatgg  | ggcggaaatt  | 5640 |
| tttattTaaG  | taaagaaaGt  | ggagtttGtGa | gtgatGtttt  | agataaaaatt | ttataaaaatt | 5700 |
| ttttataaaaa | tgggtgggtGt | ttagtacGtt  | aaaatttttag | tttagagttt  | gggtgtaagg  | 5760 |
| gttgagttGa  | gtgtagattt  | ttgggtttGt  | ttttatGttTa | gttagttttG  | agttattttt  | 5820 |
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| ggaggtGtat  | atttGtaatt  | ttagttattt  | gggagggTga  | ggtagaaggga | ttatttgaat  | 5940 |
| ttgggaggTa  | gaggttGtag  | tgagttaaGa  | tcgtGttatt  | gtatttttagt | ttgagtgata  | 6000 |
| gagtgagatt  | ttgtttTaaa  | aatagaaaag  | gaagtTaaGt  | acggTggTtt  | atattttTaa  | 6060 |
| tgttaattGtt | ttgggaggtt  | aaggtaggtG  | gattatttGt  | aattaggaat  | tcgaggttag  | 6120 |
| tttggtTaat  | atggTgaaat  | tttattttTa  | ttaaatataT  | aaaaattagt  | cgggtatggt  | 6180 |
| ggtgtgtGat  | tgtagttttTa | gttatttggg  | agattgaatt  | attttaatcG  | ggaggtaaaG  | 6240 |
| gttGtagtGa  | gttaagatcG  | tgttattGta  | ttttaatttG  | ggtgataggG  | tgaggttttG  | 6300 |
| ttttaaaaaa  | aagaaagaag  | gttgggtttG  | gtgattttatG | tttGtaattt  | tagtatttttG | 6360 |
| ggaggtTaaG  | gtaggtagat  | tatttGaggt  | taagagttcG  | agatttGttTa | ggttaatatTa | 6420 |
| gttaaaatttc | gtttGtatGt  | aaaatataaa  | aaaatttGtt  | ggttatggTg  | gtgtgtGttt  | 6480 |
| Gtaatttttag | ttatttgggga | ggttgaggtTa | ggagtattat  | ttgaatttag  | aagatagagg  | 6540 |
| ttgtagtGag  | tcgagatttGg | gttattGtat  | tttagtttGg  | atgagagagt  | aagattttGt  | 6600 |
| tttaaaaaaa  | aaaaaaaaaa  | aaaagaaaGa  | ataggaggtt  | gagaagtttt  | aagttatatG  | 6660 |
| ttaaaaaaaa  | agaaaaaaat  | attagttttTa | ggttaggtGt  | agtggTttat  | atttttaatt  | 6720 |
| ttagtatttt  | ggaaagtCga  | ggtgggtGga  | ttatgaggtt  | aggagtttTaa | gattagtttG  | 6780 |
| gttaaaattGg | tgaaaatttcG | tttcgattTaa | aaatataaaa  | aattagtttag | ttgtggTggt  | 6840 |
| aggtatttGt  | aattttagtt  | atttgggagg  | ttgaagtaga  | gaattGtttG  | aatttaggag  | 6900 |
| gtagagattG  | taatgagttTa | agatcGtatt  | attgtatttt  | agtttggaaa  | atagagcgag  | 6960 |
| atttttGttt  | aaaaaaaaaa  | ttattagttt  | ttatggatag  | tggtagagTg  | gagggTgggt  | 7020 |
| ttttatggTg  | tagaaggga   | attttatggt  | tttGttgtGt  | attcGatttGg | gatggTtGtt  | 7080 |
| gaaattTTTT  | tttagtaggt  | agttttGgaa  | atagaaaaag  | aaattTTTTt  | ttttttagaa  | 7140 |
| ttttggaagg  | gttGtGtagt  | gtttttTaatt | taagtttGtt  | ttttgagtGa  | agatagggag  | 7200 |
| gtttattatt  | agaagggaag  | gggttggaaa  | tgaggttatt  | gtatttttagt | ttagggTTTT  | 7260 |
| tgggttattt  | aggaaggga   | gaaggagTaa  | gtttttttat  | tgttaggtag  | gagtttagag  | 7320 |
| ttattataaG  | aataagtttag | tattattttt  | gtgttttttt  | tgttttGtaa  | ataaaatgat  | 7380 |
| tttttttttt  | gttttggTat  | tagagtttGt  | ttggTatttt  | ttttGttttt  | agtatttttt  | 7440 |
| ttatttgggt  | attttttttt  | gttggTgtat  | tgaataaata  | tattttattGt | tttatttata  | 7500 |
| gttttttagtt | ttattttttt  | agggtttata  | ttatttGttt  | ttattaattc  | gataaggTtG  | 7560 |
| tttattGttt  | ttagtaaggT  | ttgtattggg  | gtttttattt  | tagtGttttt  | ttttatttag  | 7620 |
| gagatttttG  | gatatttggg  | gaagaaaatG  | agtttTaaatt | tttatttttt  | tttttttatt  | 7680 |
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| ttttttttatt | tgttttttatt | agatggTttTa | agtGttTaaG  | gggatttttag | ggcggagTtTa | 7860 |
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| tttaattagg  | gtttatttga  | cgtaaatagg  | aagtaagggt  | gatgtagtgg  | ggtaaggga   | 8040  |
| gtttgggaga  | agaaagtcgg  | tttagagttt  | tgggtgtttt  | gttttatatt  | ttattttttc  | 8100  |
| ggtaagaatt  | tagtttttag  | atgaggtggg  | gagtgagtgg  | tcgagttaaa  | aatttttggg  | 8160  |
| tcgggtacga  | tggtttacgt  | ttgtaatttt  | agtatttttg  | gaggtgaagg  | taggcggatt  | 8220  |
| atltgaggtt  | aggagtttaa  | gattaatltt  | gttaatgtgg  | tgaaatttta  | tttttattaa  | 8280  |
| aaatataaaa  | attagtcggg  | tgttgttgtg  | gtacgcgttt  | gtagttttag  | ttattcggga  | 8340  |
| gtttgaggtg  | ggagaatcgt  | ttgaatttag  | gaggtagaat  | ttgtagtgag  | ttaagattta  | 8400  |
| gttattgtat  | tatagtttgg  | gcgatagagt  | gaggtttcgt  | tttaaaaaaa  | aaaaaaattt  | 8460  |
| ttgggttaaa  | tttttagata  | gtataggtag  | gtgtagaaat  | ttattaggaa  | gttgtttgtg  | 8520  |
| tatttttggg  | agattggagt  | ttggtttaaa  | gttgtttttt  | atgtagtttg  | ggtaagggtt  | 8580  |
| aaatattatg  | ttatagtgat  | tttttttatt  | atgtgtgaga  | tatggagaat  | tgggttttaag | 8640  |
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| ataaattttt  | attttaattt  | aattaggggt  | ttgtgattag  | aatgtgtaat  | tgaggtgtga  | 8820  |
| ttttattgat  | tttttttttt  | tttgagatcg  | agtttcgttt  | ttgttgttta  | ggttggagtg  | 8880  |
| cgatggtacg  | attttagttt  | attgtaattt  | ttatttttcg  | agtttgagta  | atttttttgt  | 8940  |
| tttagttttt  | taagtagttg  | ggattatagg  | tatgtgttat  | tacgtttggg  | taattttgta  | 9000  |
| tttttagtag  | agacgggggt  | tttttatggt  | ggtttaggtt  | gttttaaatt  | tttgatttta  | 9060  |
| ggtgatttat  | tcgtttcggg  | tttttaaagt  | gttagaatta  | taggcgtgag  | ttaacgtggt  | 9120  |
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| gtatgtgttg  | ttacgtataa  | gggtacgtga  | agttattgag  | gttttggttc  | gaaagttttt  | 10320 |
| ggtggtggat  | gatttttcgt  | agtttgtatt  | ttttgagcgc  | gttgagcgtt  | acgggttaagg | 10380 |
| tgggtttttt  | atlttatatt  | gttttatgtg  | agggatatata | cgtatgtatt  | tgagtatgta  | 10440 |
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| ttaaagtaaa  | ggttttttag  | ttatttatgt  | taaagtttag  | ggttgtttta  | agaagttagg  | 10800 |
| agaattgtt   | ttggtgtttt  | gatttttttt  | ggtgtggaaa  | atltttttgga | gatgtaggag  | 10860 |
| tttatttaat  | gatatgagga  | ggtttttttt  | agattttttt  | tttggaagtt  | ttttgggttt  | 10920 |
| aaggatttag  | gtttgtggag  | tgaaattaga  | tttagaatat  | gtttgatttg  | tttataggta  | 10980 |
| attggggaat  | atttgatttg  | g           |             |             |             | 11001 |

&lt;210&gt; 16

&lt;211&gt; 3501

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; chemically treated genomic DNA (Homo sapiens)

&lt;400&gt; 16



## 12496480\_1.TXT

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| attgggttaag | agttgttatt  | gttgtgggga  | ggggagtttg  | gtttgttggg  | attgtaggta  | 120  |
| atgggttggt  | gggttttgtg  | ggttaggagg  | ggaatggggg  | tgggtgggtg  | agtagtgggt  | 180  |
| aggggagttt  | aggggtttgg  | tttgggtttt  | gttgttggtt  | ttgggggttg  | tgaggaagag  | 240  |
| ttgtgagttg  | aggggtttgg  | gttgtgtgat  | tttttttgtt  | ttgtttgtag  | ttggaaaatt  | 300  |
| tttttttaag  | tttgggggtg  | tggagttttt  | ggggagaagg  | ggttggggga  | gttgtggagg  | 360  |
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| agaagagttt  | gttgggtttt  | gtgggtgttag | agtgggttgt  | gggttagtgt  | gagttgtttt  | 1920 |
| tgtgttttga  | tagttttttt  | agtgtttggg  | ttgtttttta  | taaggagttg  | ttttttgttt  | 1980 |
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| agtgtgggat  | tatgatgtgt  | tatatgtgta  | gttattttgg  | ttttaagttt  | tttgtgtgtg  | 2820 |
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| tgggtttttg  | tttgtatttt  | agggagtggt  | gggggtgggt  | tgtaggggtt  | attgtgtttg  | 3420 |
| ggataaattgt | agtggtgtta  | tagtgggtgg  | tttatttttt  | gggtgggttta | tttgggttta  | 3480 |
| ttgttttgtg  | tttttagttt  | g           |             |             |             | 3501 |

<210> 17  
 <211> 3501  
 <212> DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; chemically treated genomic DNA (Homo sapiens)

&lt;400&gt; 17

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|--------------|-------------|-------------|-------------|-------------|-------------|------|
| ttgagttaag   | gatatgaagta | gtgaggttag  | gtgaggttgt  | tgagaggtgg  | agttgttatt  | 60   |
| gtgggtgatgt  | tgtgggttgtt | ttgggtatag  | tgggttttgt  | gtgtttgtttt | tggtttgtttt | 120  |
| tgggggtgtgg  | gttagggttg  | tgtagtagtg  | atagagtggg  | ttgggtgaggg | gtgttttagg  | 180  |
| tgggagagaa   | atgggtgatg  | gtttggttgt  | tgggttttgt  | tgtaggtga   | gtgttttgtt  | 240  |
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| gtttggttgt   | ggttgtttttg | ttttgttgtt  | ttaggttttag | ttgtttgggt  | gtgaggtgag  | 420  |
| ttatagtaaa   | gatgttttttg | gggaagttag  | gtttgttttt  | gttgtttgggg | ttggggatgt  | 480  |
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| tgggggagtt   | gtgttttttg  | tttagtttgt  | tgttatagtt  | atttagggtt  | ggtttgtgtt  | 1380 |
| ttattttagtg  | atagaggaga  | ttaggtttgt  | tgggggtgggt | gggggggttg  | ggttttgggt  | 1440 |
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| ttgaggtata   | gagtgtgggtg | gttgggtttg  | gttttgatgt  | gtatagttttg | gtgtagtgtg  | 1740 |
| tgttgattgt   | ggttttttggg | tttgaggggtg | gttttgtggg  | aggtgggtgg  | ggaggtttga  | 1800 |
| ttggggatgg   | gtagttaggtt | tggatgattg  | gtgtgggtgg  | ttgttaggtt  | tgggtttgggt | 1860 |
| gatttatagg   | tgtgtttttg  | ttgttgttgt  | tgttgttgtt  | ttgttaggtg  | tagtatattg  | 1920 |
| tgtgtgttgt   | gggtgttttt  | ttgtatagtg  | ttatgaggtt  | ggggatttgt  | aggtagtgtg  | 1980 |
| tgggtgggttag | tatgggtgttt | aggtttgggt  | tagttttttg  | ggttatgggt  | gtgggtgttag | 2040 |
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| tgggttgggt   | tattatgtta  | tgggttaggt  | tgagttaggt  | gttatgtatt  | attagggatt  | 2160 |
| tgaggttaggt  | gttgtttgggt | gttagtatgt  | ttttgtgtgt  | gtggaagagg  | gtgttttgtta | 2220 |
| tatatgatgat  | tatgttgtat  | aagaagtttt  | tgggtgtgttg | gttgttgtagt | tgtagttagta | 2280 |
| gttgttttga   | gtggtttgggt | gtttttattg  | tgttttagtat | tgtttgttta  | gtatattttt  | 2340 |
| ttgtggggat   | atataattgg  | tgggtgagag  | ttgtgtgggtg | ttttgggtgt  | ttgggttttag | 2400 |
| tttggtatatt  | tttttttttta | tttttttttt  | tttttagttga | gtgggggtat  | tagtttttgtg | 2460 |
| gtttgggtat   | tgggtgaagga | ttgggttgttt | tttgaggtgg  | gagtttaggt  | tgggtttgttt | 2520 |
| ggattaggag   | aaggagttag  | aggtgagtg   | ttgttgggtg  | aggggaggtt  | aggggtgggtt | 2580 |
| gtatgtttta   | gggtattttg  | ttgggtgttg  | gggttttttga | gaagaaaatt  | gttttaggtgt | 2640 |
| agtgaatttt   | ttggagatag  | ttatttgatt  | taagtaaaat  | gtttgtttta  | ggaaaagtta  | 2700 |
| tttaggggtg   | agaattttat  | ttaagttagg  | agaaagggag  | ttgaggaatt  | agtgtttttt  | 2760 |
| gtttttgggag  | aagttgtttt  | agttggggga  | agtgatatgg  | aggaggggag  | tgtgggtgttt | 2820 |
| gtttttgggt   | tgtttttgggt | gggggttgtt  | aattttttgt  | tgggggtttg  | gtgggtgggtg | 2880 |
| tgtggggagt   | ggaggttagtg | gttgttgttg  | tgggttagagt | gtgaaggttg  | gggtttgggtg | 2940 |
| ggggaggggt   | ttatatattg  | gtaggaggtt  | gaggtaggaa  | gtaggtgggg  | gggagggggg  | 3000 |
| agttatgtag   | tttttagggg  | agggaggggg  | tagtgttttt  | gggtgggtatg | gtgtatagtt  | 3060 |
| ggtttgtgtt   | ttgatattgg  | tttgtgtttt  | attttgttgt  | tgggtttttgt | ttgggttttta | 3120 |
| tatgtgtggg   | tttgggtgtt  | tttttttgtg  | tttttttgtt  | tttttttttt  | ttggaatttt  | 3180 |
| gttgttttaa   | atttggggaa  | aagttttttta | attgtagata  | gggtgggagg  | agtgtgtttg  | 3240 |
| tttttaggtt   | ttgggtttgt  | gttttttttt  | gtgggttttta | aattttgggtg | tagagttttg  | 3300 |
| agtttaggtt   | tgagtttttt  | tgtttgttgt  | ttgttttgtt  | gattttgttt  | tttttttggt  | 3360 |

## 12496480\_1.TXT

|             |             |             |             |             |            |      |
|-------------|-------------|-------------|-------------|-------------|------------|------|
| ttgtgggggtt | ttgtgggtttg | ttatattgtgg | ttttgggtggg | ttgggtttttt | ttttttgtgg | 3420 |
| tggtggtagt  | ttttagttga  | tgttttatatt | gttgtttgtta | ggtttttagt  | tgtgttaggg | 3480 |
| tagtgttttt  | gttagttttg  | t           |             |             |            | 3501 |

&lt;210&gt; 18

&lt;211&gt; 2501

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; chemically treated genomic DNA (Homo sapiens)

&lt;400&gt; 18

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| tttttatagt  | gtaaatgtgt  | ttttattatt  | ttttggagta  | attttattta  | aaattgtttt  | 60   |
| tagtataaaa  | tttaaatatt  | taaatatgat  | tttggttggt  | ttgtttttgt  | ggttttatatt | 120  |
| tttttttttt  | taaatttagt  | tagtgtttgt  | gttgtttgt   | atgttttttt  | ttttttgtag  | 180  |
| gggttggtat  | tttaggtttt  | ggtttttttt  | tagaaagttt  | tttttttttt  | tttttagtgg  | 240  |
| ggatagggtt  | tgtttatatt  | gatattatta  | gtttatttat  | atatattggt  | tataagttta  | 300  |
| ggttgattg   | ttattgaaag  | tttattatatt | gatttttagt  | agtttgagga  | ttttattaaa  | 360  |
| atttaggaga  | tgtttagtaa  | atgttgattg  | aattatgatt  | gtttttaata  | tataaatgta  | 420  |
| agattattta  | ggaatatatt  | ttaaaatggt  | tttgtttttt  | gagattttat  | tttgggaggt  | 480  |
| aagtagtggg  | ggtttaggat  | tttgtatttt  | gatagttttt  | tgatgtttgt  | atgtagaagt  | 540  |
| gtagggatta  | ttatattgat  | aaatttttat  | tatttttaag  | ggggattttt  | ttttttaggg  | 600  |
| gttatttttt  | gaagtttttt  | aaggataggg  | gttgtatggt  | gttttttttag | gttagtaatt  | 660  |
| aaatttagaa  | aatgtttatt  | gagtgaatga  | tgaaatgata  | ggtgaataga  | tgaatgtaag  | 720  |
| gtgttgagtt  | aattattttt  | ttatataagt  | tttagtagtt  | tttattgttt  | ttagttgtag  | 780  |
| aaatggtttt  | tgggaaggtaa | gttttttagt  | gagtgaggtt  | atttttaaatt | atatttttta  | 840  |
| ggatttttaag | ggagtgtgtg  | gttttgtgtt  | tattttttta  | ttagaaattg  | gtaagttatt  | 900  |
| gattttttgtt | ttgtttttgt  | tattttttgt  | ttttttttgt  | tttgtagtgt  | gtgttttagtg | 960  |
| gttttgtttg  | tttgtgtgtg  | tggtgttgta  | ggttttatatt | atgggtttat  | tggtgaggtt  | 1020 |
| tgatgggtgg  | gtggtattgg  | ttattggtgt  | gggggttaggt | gagtatgtga  | agggtggagg  | 1080 |
| ttgtgttttt  | tggttaggtg  | tagttgggtg  | tttttttttg  | gttggtatat  | gtgtgtagtt  | 1140 |
| gtagttgagg  | ttattttgtt  | gaggtgggtg  | ggaggggaat  | ggttattttt  | gaggtattgt  | 1200 |
| attttttgag  | gaggaaagag  | ttggaaatat  | ttgggttttt  | aagtaggtat  | agtttgtttt  | 1260 |
| tttttagtat  | tttgggtgtg  | gttttttaag  | gttttgtttg  | agaggagagg  | ttaggttggg  | 1320 |
| ttgttgattg  | taaaattggg  | tgaaagtttt  | ttttgatttt  | tatttggtgg  | tattgattgt  | 1380 |
| tatttttttt  | gtaattaaatt | tttttagatt  | tttgtttagt  | tttttaaagg  | attgaaaagt  | 1440 |
| tgtgaggggt  | gggggttgga  | atltgttttt  | tgaagtgtag  | agatgttagt  | ttttgaaaag  | 1500 |
| ttatttggtt  | gttttagtgt  | tgtttttttt  | tgttgtaga   | ttttaagttt  | gtgagaggat  | 1560 |
| tttttttaaa  | gaggggtgtt  | gataagagtt  | tttttttgtt  | ggagtgtgta  | tgtttagtaa  | 1620 |
| gttataatatt | gtttttgaaa  | tttattggag  | ttttggtaga  | ggttgttaagt | ttaaatgtgt  | 1680 |
| ataggggtta  | ggtgtatgat  | ggagaaagaa  | aatgggagta  | ggatgggtat  | atltgaggaa  | 1740 |
| ttggagagta  | gagaattttt  | aagtggattg  | gttagtgagg  | aagtgtgttg  | tatttttagga | 1800 |
| gtggtaaaaa  | ggaaaattgt  | tatgtgaaat  | agttttatatt | tttaaagtat  | aaaaaattaa  | 1860 |
| aataaattat  | ttatattaat  | atagatgttg  | tgtagtgaga  | ttttatatta  | gttttttatt  | 1920 |
| agtgggtgat  | ttttgtaatt  | tttaagtgt   | gggattttga  | tattatgtat  | ttttgatttt  | 1980 |
| ttattggtag  | tattttatat  | ttggaaagg   | tttaatgtat  | gaattatttg  | agttatatat  | 2040 |
| taaatgttat  | aaattggaat  | tttgtttaatt | aatttttatg  | tattttttata | tttgtattga  | 2100 |
| taaagtgggt  | ttttatgttg  | tttttttagaa | aatgttttta  | gtgttgatga  | atagttaagt  | 2160 |
| atlttatatt  | tatagtgtgt  | tggttatatt  | tgtaggggt   | tgtagttggg  | tgtagttata  | 2220 |
| tttttttaaat | gttttttagga | aaatatatttg | tttatatttt  | gtttttattg  | taaaataatgt | 2280 |
| atltttataat | gtttgggtgt  | ttaaaatttt  | tttgatagtt  | tttggataat  | ttttatgtag  | 2340 |
| gaggttttagg | gattatatatt | taagatgttt  | ttgttattgt  | taaggagatt  | ttttttttta  | 2400 |
| gggtttatat  | ttgaaaatta  | tttaaggata  | gggattgttt  | tttttgatat  | tattagttata | 2460 |
| tttatatatg  | gtatgtagta  | tattttatat  | tagtatttag  | t           |             | 2501 |

&lt;210&gt; 19

&lt;211&gt; 2501

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; chemically treated genomic DNA (Homo sapiens)

&lt;400&gt; 19

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| attgagtatt  | ggtgtaaaaat | gtattgtata  | ttatgtgtaa  | gtatgttaaat | ggtgttaaaaa | 60   |
| gaagtagttt  | ttatTTTTga  | atgattttta  | gatatagttt  | ttgaaaagga  | aagttttttt  | 120  |
| agtgatggta  | aaaatgtttt  | agaatgtaat  | ttttggattt  | tttgtatgaa  | aattatttaa  | 180  |
| gagttgttaa  | aaaagattta  | aaatattaag  | tgttgtaaaa  | tatattattt  | ataataaaaag | 240  |
| taaagtgtaa  | ataaaaatgtt | tttttaaaaa  | tattttagaag | gtatgattat  | atttaaatat  | 300  |
| atgtttatgt  | agagataaatt | agatagttat  | gggtataaaa  | tatttgggta  | tttattaata  | 360  |
| ttgaaagtat  | tttttgaaag  | gtagtataag  | aagttatttt  | attaatatag  | atatgaaagt  | 420  |
| atataggaat  | taattgatag  | aatttttagtt | tgtaatgttt  | aatatataat  | ttaaataaatt | 480  |
| tatgtattag  | ggttttttta  | ggtataagggt | attattagtgt | gagaattaaa  | ggtgtataat  | 540  |
| gttaagattt  | ttgtattttg  | aggttataga  | ggttattttat | tgggtgagaaa | ttaatgtaaa  | 600  |
| atTTtattgt  | atagtattta  | tgttgggtatg | aatggtttgt  | tttaattttt  | tgtattttta  | 660  |
| aaaatggggt  | tattttatat  | aataaattttt | tattttgttg  | tttttgaaat  | ataggtaatt  | 720  |
| tttttattgg  | ttggttttatt | ttggaatttt  | ttgtttttta  | gtttttttaga | tgtgtttatt  | 780  |
| ttatttttat  | tttttttttt  | tattatatgt  | ttgatttttg  | tgtgtatttg  | agttttataat | 840  |
| ttttgttaa   | atTTtagtg   | atTTtgagaa  | tagattgtga  | tttgttaagt  | atataaattt  | 900  |
| taatggggaa  | gggtttttat  | tagatgtttt  | ttttaaagaa  | ggttttttta  | tgaattttaa  | 960  |
| atTTtatgat  | agaggggaaat | aaatattgaa  | tgattgaatg  | atTTtttagg  | agttgatatt  | 1020 |
| tttgtgtttt  | aggggggtgaa | tttttagtttt | tgttttttgt  | ggtttttttag | ttttttaaaa  | 1080 |
| gatttaggtaa | agattttaa   | gagtttaattg | taggaagagt  | aataaattgat | gtttatagat  | 1140 |
| aaggggttagg | gagaattttt  | atTTtagtttt | gtaattagta  | gttttagtttg | gttttttttt  | 1200 |
| ttaggtagga  | ttttgggaag  | tttatatttg  | ggtgttgggg  | agaagtgggt  | tgtatttggt  | 1260 |
| tgagagatta  | ggtgtttttg  | gttttttttt  | ttttaagaga  | tgtggtgttt  | taagaataat  | 1320 |
| tatttttttt  | tttatttttt  | tagtgggggtg | atTTtagtttg | tgggtgtgtg  | tgtatgttgg  | 1380 |
| tttgaaaaga  | gtagttagtt  | gtgtttttagt | aaggggtgtg  | gtttttaatt  | tttgtatgtt  | 1440 |
| tatttgtttt  | tgtgttggtg  | attagtatta  | tttgtttgtt  | gaatttttagt | ggtgagttta  | 1500 |
| tgaataagggt | ttgtaatgat  | atatatatga  | ataagtagag  | ttgttggatg  | ttgattgtgg  | 1560 |
| gataggagga  | ggtgggggaa  | ggtgggggtg  | ggatgagggt  | tagtgatttg  | ttgatttttg  | 1620 |
| gtaggaagat  | gagtgtagag  | tgtgtgggtt  | ttttggaatt  | ttgggaaatg  | tagttaagag  | 1680 |
| tgatttttat  | tgttgaaga   | tttgtttttt  | aggggttatt  | tttgtggttg  | gaagtaattg  | 1740 |
| gagttgttag  | gatttgtgta  | gaagaatagt  | taatttgata  | ttttgtgttt  | atttatttat  | 1800 |
| ttgttgtttt  | attattttatt | taataaatgt  | tttttgggtt  | tagttgttga  | tttagagaaa  | 1860 |
| tagtatgtgg  | tttttatttt  | tgaggggttt  | ttagagatag  | tttttgggaa  | ggaaagtttt  | 1920 |
| tttttagggat | ggtaaagatt  | tgttagtgta  | ataatttttg  | tattttttata | tgtaaatatt  | 1980 |
| aggggattgt  | taaaatgtag  | agttttggat  | ttttatttgt  | tattttttta  | aatagaattt  | 2040 |
| taaggggttaa | aaatattttg  | ataagtgttt  | ttaaatgatt  | ttgtgtttgt  | atgttgagaa  | 2100 |
| tagttatagt  | ttaatataa   | tttattgagt  | atTTtttag   | ttttgatagg  | atTTttaagt  | 2160 |
| tatttagagt  | tagatggtaa  | atTTttaata  | atgggttagt  | ttagatttgt  | gattaatgtg  | 2220 |
| tgtaatgtag  | ttaatggtgt  | taaaataaat  | agattttatt  | tttgttgggg  | agaaagagga  | 2280 |
| aaaatttttt  | gaaggaggat  | taggatttaa  | agtgggtgatt | tttgtaaaaga | aagaagggtta | 2340 |
| ttataggtag  | tataaatatt  | agtttaggttt | ggggagaaaag | agggtaaaagt | tataaaaagta | 2400 |
| aagttagttaa | gatttatgtt  | agatgtttga  | atTTtgtgtt  | gaaaatgggt  | ttaaagttaga | 2460 |
| ttatttttaga | gagtgggtggg | aatatattta  | tattatggaa  | a           |             | 2501 |

&lt;210&gt; 20

&lt;211&gt; 2470

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; chemically treated genomic DNA (Homo sapiens)

&lt;400&gt; 20

|             |            |             |            |             |             |     |
|-------------|------------|-------------|------------|-------------|-------------|-----|
| aaagatgatt  | aaaagtttaa | ttgtttattt  | gaagagttga | ttttttttatt | tttgtataata | 60  |
| agggatattt  | tagtagtttt | tgtttatttt  | gtttattttg | ttttttttgt  | ggttgtgttaa | 120 |
| ggttataaatt | tttgtgtttt | agtaaatTTg  | tgtatgttta | tttttttttt  | tgttattatt  | 180 |
| ttttttttta  | ttttgtttta | ttattttgat  | gtaaaattat | ttgttaattt  | tatttgaaat  | 240 |
| gagaaatttt  | aaggtttata | ttattttaaat | tttgttagat | ttttattttt  | gttatatgggt | 300 |
| ttataatgtg  | ttgggtattt | ttagatttgt  | ttattaaaaa | gatgtaaaat  | aaaataatga  | 360 |

## 12496480\_1.TXT

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ttatTTTTgt  | ggatTTTTtt  | tttatTTTTg  | agatgTTTTt  | tttggTtGta  | ttatTTTTtt  | 420  |
| atTTTTgtt   | tattgattag  | aggaggggtt  | ttaattatgg  | gtgaatttta  | tattttattg  | 480  |
| aagaggttat  | gttatatgta  | tatTTTTata  | atataattta  | tatttatata  | gtatTTTTat  | 540  |
| TTTTagTata  | TTTTTTTTta  | TTaattTTta  | taatatattt  | gtaagttatg  | ttgaagtaga  | 600  |
| ttgtaagtgt  | ttatTTataa  | attgtgaaat  | gaattaaaa   | gaaagggtaa  | agattaaatt  | 660  |
| atgattagggt | ttgaaattaa  | tatataagat  | ttaatTTTTt  | TTaattaaag  | atTTTTgtag  | 720  |
| gtgattTTTTg | tttgtaggat  | TTTTTTTTtt  | TTTTtagatg  | tattggattg  | tattagggtt  | 780  |
| attgtagatt  | ttagtTgttg  | tagaattaat  | tagatTTaag  | atgagTTTTt  | tgatTTTTtt  | 840  |
| tggtagagtt  | TTTTaattgt  | tgaattTTta  | tattgtTgtg  | attagttagt  | gttataattt  | 900  |
| gtttgtTTta  | TTTTgtgtaa  | tggattTTat  | attatagagg  | tattTTTTta  | atgttaagat  | 960  |
| gtttaagtat  | tgTTtaagt   | taaattattt  | aatatTTTTt  | agttattaag  | taattaagat  | 1020 |
| aggtaggatt  | ttattTgttt  | taaaatgatt  | tgattTTaag  | taaaaagaga  | atgtggattt  | 1080 |
| tttgaatttt  | atttggttaa  | TTTTaatata  | atTTTTtagt  | TTTTataatt  | TTTTttaaag  | 1140 |
| TTTTttatt   | tggttatttt  | ttgtattttt  | tttgtTTTTt  | TTTTTTTTtt  | ttagtTTata  | 1200 |
| taattTgttag | atTTTTgttt  | atTTTTTTTT  | gatagTTTTt  | atTTTTaagg  | ttattttatt  | 1260 |
| TTTTtaggta  | TTTTttgggt  | ttagtTTtag  | tatagttagt  | TTtaagatta  | tatatgttat  | 1320 |
| agtatagggt  | attatagtta  | atTTTTtgaa  | taaatgtgat  | tgaattTTat  | gttagtaatt  | 1380 |
| tttattttatt | atTTTTttat  | taaaaagggt  | taaagtTTTT  | atTTaatgtt  | TTTTtttatg  | 1440 |
| tttattttgt  | taaatgattg  | TTTTTTaatg  | atattTTtag  | atTTtagaat  | tattttatta  | 1500 |
| tgaggagatgt | gtaagattag  | TTTTttatta  | aataaaaaagt | gtgaaatgga  | atatgtaatt  | 1560 |
| ttattaattt  | atTTtggttt  | taaaattTTg  | tgattatttag | ataaaaattt  | gaaataaaat  | 1620 |
| agtattatta  | atataaaata  | atTTTTatta  | taattatatt  | TTTTaagttt  | tgTTtgtaag  | 1680 |
| aatgggtaaa  | atattTTTTaa | aatTTtgaag  | aaattattat  | ttgatagaaa  | gtTTaattta  | 1740 |
| tttTgtgagaa | ggtaaatgta  | tttagatata  | attaaagttt  | TTTTTTTTat  | TTtaattTTa  | 1800 |
| tttattttga  | attaagattt  | tattgtTTta  | TTTTTTtaga  | tgTtgttatt  | tgaataatat  | 1860 |
| tgTTTTgaga  | TTaaaaatta  | gtatattaat  | ataatTTTTt  | TTaaatgttt  | taagagtttt  | 1920 |
| gTTTTTTTTta | TTTTTTTTtt  | taaaaataag  | tagttattaa  | atTTTTtagt  | agtgaatttt  | 1980 |
| aaaattTTTTt | TTaattTTat  | aggTTtaagg  | gtagTTaagg  | atggTttag   | TTTTatatga  | 2040 |
| ttagtTgtta  | aagtaagttg  | aggTattgaa  | gatggagaat  | TTaaatTTTT  | gataagagtt  | 2100 |
| agaagataat  | TTtaattatt  | TTataaaaatt | ggaaattgag  | gtattTTaata | tgaaggatt   | 2160 |
| aagattgtga  | TTTTtaattg  | tagtttattt  | atTTTTattt  | agtattTTTT  | tttgtaaatt  | 2220 |
| tgaggtaaga  | tattttattt  | aaaagtgtat  | TTtaaaattaa | gtaataatat  | gtaaattTTTT | 2280 |
| ttttgtaaaa  | gttagtattt  | atattTTTTaa | ataagatata  | ttgaattttat | ttagtgaatt  | 2340 |
| atataaagaa  | aataagtgta  | aaattTTaat  | ggTtagttag  | TTTTtagttt  | TTTTtaagat  | 2400 |
| taaagagaag  | agattaaata  | tagtattatt  | gtattgaggt  | aaggTTTTtt  | gtgtagtTTa  | 2460 |
| tagaaattag  |             |             |             |             |             | 2470 |

&lt;210&gt; 21

&lt;211&gt; 2470

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; chemically treated genomic DNA (Homo sapiens)

&lt;400&gt; 21

|             |             |             |             |             |             |     |
|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| ttagtTTTTta | tgaattatat  | agaaaatttt  | gttttagtat  | agtgatgtta  | tatttggttt  | 60  |
| TTTTTTTTta  | atTTtaaaaa  | gaattaagaa  | ttaattagtt  | attggagttt  | tatatTTatt  | 120 |
| TTTTttatat  | gattttattga | atgaatttaa  | tatatTTTTat | TTaaaaatat  | aaatgttaat  | 180 |
| TTTTgttaaga | aagagTTtat  | atattattgt  | TTaattTTaaa | atataTTTTt  | aagtaaaagt  | 240 |
| TTTTattTTta | agTTttataag | agggaattat  | gaataaaaaat | ggataaaatta | taattaaaag  | 300 |
| ttatagTTTTt | gatattTTTTa | tatttagatgt | tttagtTTTTt | agTTTTgtaa  | gatgattgga  | 360 |
| attatTTTTtt | agTTTTttgtt | gaagattTTga | gtTTTTttatt | TTtagtgttt  | taattTgttt  | 420 |
| taataaattga | ttatatgaag  | ttgtagttat  | TTTTggTTat  | TTTTggattt  | ataaggTTaa  | 480 |
| aaaggattTTt | gaaattttatt | attaaaaaat  | ttagtggTtg  | tttgtTTTTta | aagaaagggg  | 540 |
| taaaggaaaat | aaaattTTTTa | agatgtTTta  | gaagaattgt  | gttaatatgt  | tagtTTTTtg  | 600 |
| TTTTaaaata  | atattgtTTta | agtagtagta  | TTtaagagga  | tgaaatagt   | gagTTTTtag  | 660 |
| TTaagataaaa | tgaaattaaa  | atagaagaga  | gaattTTtagt | tgtgtTTtgaa | tatatTTgtt  | 720 |
| TTTTtataga  | tggaTTaaat  | TTTTattTaa  | gtaataattt  | TTTTaagggt  | TTaaagatat  | 780 |
| tttattttatt | tttataggta  | aaattTtagga | aatataatta  | tgataaaaaat | ttattttatat | 840 |
| tagtaaatatt | atTTTTatttt | tgaattTTtat | ttgatagtta  | tagaattTTta | gagTTtagaat | 900 |
| ggattaatga  | gattatatat  | tttattTTtat | atTTTTttatt | tgataaaaagg | TTaattTTtat | 960 |

## 12496480\_1.TXT

|             |             |             |              |             |             |      |
|-------------|-------------|-------------|--------------|-------------|-------------|------|
| atattttttta | tgggtgaaata | gttttgaagt  | tttaagatgt   | tattaaaagg  | taattatttta | 1020 |
| ataaaatgga  | tatgaaggag  | agtattaaat  | gaagatttta   | agtttttttg  | ataggaagat  | 1080 |
| ggtaaataag  | aattattaat  | ataaagttta  | attatatttta  | tttaaaaggt  | tgattataat  | 1140 |
| agttttatggt | atgggtatatg | tgggttttggg | atttggttggtg | tttaaattga  | ggttaaaaga  | 1200 |
| tatttaaaga  | gaatggatga  | ttttaggagt  | agagattggt   | aaagagaaat  | gaagtagagt  | 1260 |
| ttggtagtta  | ttatgattgg  | gaaagaagag  | gagagataaa   | gaagatataa  | aagatagtta  | 1320 |
| ggtaagagga  | ttttaggaag  | aattatagaa  | tgttaggagt   | tatattaaga  | ttaattaagt  | 1380 |
| aagatttagg  | agatttatat  | ttttttttta  | gttttaggta   | aattattttg  | gaataaataa  | 1440 |
| aattttgttt  | atttttaatta | tttaaatagtt | aaaaagtatt   | aagtagtttg  | tatttaagta  | 1500 |
| atattttaa   | attttgatat  | taaaaaaatg  | tttttgtaat   | atgaaattta  | ttatataaaa  | 1560 |
| taaggtagat  | agggtgtaat  | attgggttagt | tatgataata   | ttggagttta  | gtaattggaa  | 1620 |
| gattttatta  | aaggaaatta  | ggggattttat | tttagatttta  | gttagtttta  | taatgggttag | 1680 |
| aattttatagt | aaatttggtta | taattttaatg | atatttgagg   | aggaagggga  | gttttgtagg  | 1740 |
| tagggattat  | ttataaaagt  | ttttgggtga  | aaaaaattga   | gttttggtgtg | ttaatttttag | 1800 |
| gtttgggtat  | gattttaattt | ttgttttttt  | atttttaattt  | attttataat  | ttgtaaatga  | 1860 |
| atattttataa | tttgtttttaa | tataattttat | agtgatatta   | ttaggattaa  | taaaaaaagg  | 1920 |
| tatgttaaaa  | ataaaagtat  | tatgtaaatg  | taagttatat   | tatgaaaata  | tatatgtaat  | 1980 |
| ataattttttt | tagtaagata  | taggggtttat | ttatagttaa   | gattttttttt | ttgattaatg  | 2040 |
| ggtaaggggt  | gaagaagtaa  | tgtagttaaa  | ggagatattt   | taaaaataaa  | ggaaaaattt  | 2100 |
| ataggagtga  | ttattattttt | gttttatatt  | tttttaataa   | gtagggtttga | aaatattttag | 2160 |
| tatatataaa  | attatatgat  | agaggttaggg | atttgataga   | atttgaataa  | tgtgaattttt | 2220 |
| aaaattttttt | atttttaata  | aaatttaatag | gtaatttttat  | attaaaataa  | taaaaataaa  | 2280 |
| taagagaaaa  | ggtagttaata | gagaaaaaaa  | tgggtatgta   | taagttttatt | gagatataga  | 2340 |
| agttataatt  | ttatataatt  | ataaaaagag  | ttggatgggt   | aagatgagta  | gagattgtta  | 2400 |
| aaagtattttt | ttatttatagg | aataaaaaaa  | ttaattttttt  | agatgaataa  | ttaaatttttt | 2460 |
| aattatttttt |             |             |              |             |             | 2470 |

&lt;210&gt; 22

&lt;211&gt; 7001

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; chemically treated genomic DNA (Homo sapiens)

&lt;400&gt; 22

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| aatgtaattgg | aaaaagagag  | attgttaaagt | tagaagggttt | aggaattggt  | ttttgatttag | 60   |
| gtgtggaagg  | taagggaaaa  | ttagttttttg | aagaagatag  | tgagatttta  | atttggggtgg | 120  |
| ttggagagat  | agtgatgttg  | ggtatagata  | tggggaaggt  | gagaggaata  | ttatgtttga  | 180  |
| gaatgggtgat | ttatatattga | ataagtttgt  | aatgttttagt | agattggttg  | aaaagtgggg  | 240  |
| ttggagatat  | atttaattgga | ggagtttagat | taattttttat | tttttttttat | ttgagagagt  | 300  |
| tagtaagtta  | tggtttgaat  | gtgtgtgttt  | agtaggagag  | ggtaggagg   | gaagttaaga  | 360  |
| gagttgggag  | tttgagtga   | gtttttgtta  | aaggtagaag  | aggaaagtgtg | gtgtagtata  | 420  |
| gtatatatttt | ttatttatgt  | ttattaaagt  | tagggataag  | gtttatttaag | atgagtttg   | 480  |
| aagagaatgt  | tggagagaaa  | gtggtttaaga | aaattgtttt  | tattgaattt  | tttgggttaa  | 540  |
| ttttgattgt  | aagtttttga  | ataattaaag  | tttgtgagga  | gatagttaat  | ttttttattt  | 600  |
| tttttatgtt  | aatagtgaat  | aattgttagat | tttttttttt  | tttttttttt  | ttttttttgt  | 660  |
| tttttttttt  | ttttttttttg | aatattttttg | ttttttttttg | ggattgggtt  | agagtatggg  | 720  |
| tggttattgt  | tgatttatag  | gaggtattat  | tgttattaat  | aaagggtaat  | agtttttttt  | 780  |
| tttaaatattt | atttatattt  | agtattttatt | tttaatatgt  | attatggaga  | gagttttttt  | 840  |
| gtgttttaaat | attgtaatat  | tgggggtttt  | ttaaagtata  | aaaatatata  | tttgtatgat  | 900  |
| ggtattatta  | atattttttat | ggtttttttat | ttttttttttg | tattgggtttt | aagagttatt  | 960  |
| tataaattttt | ttagtaattg  | tatagtgttt  | taggggttaga | gattgggttat | ttttgggtatt | 1020 |
| gtgatttagag | ttattttaata | tttaagggtgg | tgattaatgt  | ttggtaataa  | agttttttatt | 1080 |
| gggtgttatg  | tgtttttggga | ttttgagtgt  | gggtattttta | ggagtatttt  | agtattgtgt  | 1140 |
| gttagtatta  | tgggttagag  | aatagttgag  | aaagtgggtta | agaggtggat  | ttatgtgaat  | 1200 |
| gttatttggga | aatgagagat  | tttggttttta | attatgggtta | gtgtaatttg  | aaagttttaa  | 1260 |
| attagttttaa | aataaaggta  | tttatttttta | ttttatgttt  | atatttttagg | tttttaataa  | 1320 |
| tatgtattttt | ttatatgttt  | atagaaagta  | gttaattgag  | ttatttatgg  | aaaggtttgt  | 1380 |
| gggttttggtt | aatgaagtgg  | aggagtatta  | tatttttagtt | ggaaatatat  | tttttagaatg | 1440 |
| ttaaaatatt  | tatttttaaag | tttggtttttt | tgggtgaatt  | ggaggtatgg  | taatgttttt  | 1500 |
| gttttagagat | tgggggttag  | ggttagtaag  | gtatttgatt  | tatatgtatt  | ttagaagggtt | 1560 |

## 12496480\_1.TXT

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| tttattgtta  | aattatattt  | ttttggaaaa  | attatattatg | ttttatttttg | taaatttgat  | 1620 |
| atttatatat  | ttttgattgg  | tattttattt  | tagttgtaag  | attatgattt  | atagtaagtt  | 1680 |
| tgtttttttt  | tttgtttggg  | gtggtagtag  | aaagtatagg  | gtatttttta  | gtttttaagg  | 1740 |
| gtaggggtaa  | aggggttggg  | gttttttttt  | tttagtatag  | tttttttttg  | ttgtgttata  | 1800 |
| ttgttttttg  | tgagtagata  | gtaagttttt  | ttttattttt  | tattgttatt  | tatttagtgt  | 1860 |
| tgtgtagtag  | tttagttgtg  | tgtttgttgg  | gaggggttgt  | taagtgtttt  | gtttatttgg  | 1920 |
| tgttttttga  | atttttgtta  | ttttatgtat  | aaatatattt  | atatattttt  | tttgtttagt  | 1980 |
| ttatatattg  | agttatttgt  | atatgtgagt  | atattttttt  | tttttttttt  | attttttttg  | 2040 |
| tttttgattt  | ttataagttt  | atggaatatt  | tttggaaaga  | tgtttttgat  | ttagtagggg  | 2100 |
| aggtttgttt  | tgattttttt  | ttttgtagtt  | ttagtatttt  | gagaaagtaa  | tttatttttt  | 2160 |
| tggtagtgt   | ttgtatttta  | gtaggagagt  | gaggatttgt  | gttttttatg  | ggggtatgtg  | 2220 |
| tgtgtttttt  | ttttttttta  | ggattttag   | gattttttgt  | gttatttcta  | tataatttgg  | 2280 |
| taggtttata  | ttttttaaga  | gttttatgaa  | gtgttttttg  | tatgtgtttt  | aaaaaggtat  | 2340 |
| ttgaaaattg  | aaagtgtgat  | ttatggaaat  | taaattattt  | gtaaaaaatt  | gttttggaaa  | 2400 |
| gtaatgattg  | ttgggtataa  | agggaaatat  | ttgtgatgta  | tttaatttgt  | ttttaatttt  | 2460 |
| ttatttgttg  | ataatttata  | gttattaatg  | ttaaatttga  | ttttggtttt  | agttatatatt | 2520 |
| gtatatgttt  | taataatggg  | ttatttttgt  | aagaattaga  | taaaatgtat  | atttcatata  | 2580 |
| aaatagttta  | aaatgtaatt  | tttagtaata  | gtaagtttgg  | tatttagata  | gattatgaat  | 2640 |
| attttgttag  | atatttttgt  | gggtgtttgg  | gatagtaatt  | aaaataaagt  | attgatagtt  | 2700 |
| gtattagagt  | ttattaggtt  | gtagtaaagg  | aagtttattt  | aaaagtataa  | attatttaag  | 2760 |
| tatatagatg  | tatgatatat  | tttattttat  | ttttgttttt  | ttaatatgta  | tatatatata  | 2820 |
| tatatatata  | tatatatata  | tatatgtgtg  | tgtgtatgtg  | tgtgtgtatg  | tttaattttt  | 2880 |
| aatttagtta  | aaaatttttt  | tttatttgtt  | ttttatttgg  | atatttgatt  | ttgtatatatt | 2940 |
| tagtttaagt  | gaattgagaa  | gattgagttg  | taggattaaa  | ggatagatat  | gtagaaatgt  | 3000 |
| attttaaaaa  | tttgtttagtt | ggattagatt  | gataatgtaa  | tataattgtt  | aaagttttgg  | 3060 |
| tttgtgattt  | gaggttatgt  | ttggtatgaa  | aaggttatat  | tttatattta  | gttttttgaa  | 3120 |
| gtttttggttg | tataattaat  | ttgtggaagg  | tatgaatatt  | tatgtgtgtt  | tttaattaaag | 3180 |
| gttttttttga | atattttttt  | atatgagaat  | ttttaattgg  | attaagtata  | gtatttgtgt  | 3240 |
| ttaatataaa  | tataaagttt  | aggttgagag  | aatttttagaa | ggtttgtggaa | gggtttattt  | 3300 |
| attttgggag  | tattttgttag | aggaagaaat  | tgaggttttg  | gtaggttcta  | tttttttgat  | 3360 |
| ggtaaaatgt  | agtttttttt  | atatgtatat  | tttgaatttt  | tgtttttttt  | tttttagatg  | 3420 |
| ttttttgtta  | gttttttttag | ttgttaaata  | tagtttgtttg | tgggttggttg | tgtatgtaat  | 3480 |
| tgtatatattt | atttttatttg | ttttattttg  | gttatagtgt  | agtttttttt  | agggttattt  | 3540 |
| tatgtatata  | ttatgtattt  | ttagttaaat  | aggaggggga  | attaaataga  | aagagagata  | 3600 |
| aatagagata  | tattggagttt | tggtagggg   | tataaagggt  | agtatatatt  | agaaagttag  | 3660 |
| tttttggatt  | tgttttttgt  | gtttatttta  | agtttagttt  | tttttgggtt  | attttttagta | 3720 |
| gattttttgtg | tgttttttgt  | ttttggttgt  | gaaatttagt  | ttttatttag  | tagtgatgat  | 3780 |
| aagtaaagta  | aagtttaggg  | aagttgtttt  | ttgggattgt  | tttaaaattga | gttgtgtttg  | 3840 |
| gagtgtatgt  | taagttaattg | ttagggttaag | gtaaatgttt  | ttgggttgtt  | tttagtattt  | 3900 |
| ttgtaatgta  | tatgagtttg  | ggagattagt  | attttaaagtt | ggaggttttg  | gagtttagga  | 3960 |
| gttgggtggag | ggtgttttgt  | ttgggattgt  | atttgttttt  | gttgggttgt  | ttgggtttat  | 4020 |
| tggatttcta  | gggttttggg  | gtagggttgg  | gggttagagtt | tgtgtgttgg  | tgggatattgt | 4080 |
| gttgtgttgt  | ttttaatttt  | gggttgttgt  | tttttttttag | gtggttttgt  | gggttttgag  | 4140 |
| ttttttgttt  | tgtggggata  | tgggttgtat  | tttgttttgt  | gttatggatt  | atgattatga  | 4200 |
| ttttttatat  | taaagtattt  | gggatggttt  | tattgtatta  | gatttaagggt | aatgagttgg  | 4260 |
| agtttttgaa  | ttgtttgtag  | tttaagattt  | ttttggagtg  | gtttttgggt  | gaggtgtatt  | 4320 |
| tggatagtag  | taagttttgt  | gtgtataatt  | attttgaggg  | tgttgtttat  | gagtttaatt  | 4380 |
| ttgtggttgt  | tgttaattgt  | taggtttatg  | gttagattgg  | ttttttttat  | gggtttgggt  | 4440 |
| ttgaggttgt  | ggtgttttgt  | tttaattggt  | tgggggggtt  | ttttttattt  | aatagtgtgt  | 4500 |
| ttttgagttt  | gttgatgtta  | ttgtatttgt  | tgttgtagtt  | gttgtttttt  | ttgtagtttt  | 4560 |
| atggtttagta | ggtgttttat  | tatttggaga  | atgagtttag  | tgggttatatg | gtgtgtgagg  | 4620 |
| ttggtttgtt  | ggtattttat  | aggtatttgt  | gtttgttgtt  | tttgttgggg  | tgggttgtgt  | 4680 |
| gttttggtagg | agggaggagg  | ggaggaggag  | agaagggaga  | gtttaggagg  | ttgtgggagt  | 4740 |
| tgtgggatgt  | gtgatttgag  | ggtgtgtgta  | gggagtttgg  | ggtgtgtggg  | ttagtttggg  | 4800 |
| ggttttgtgt  | gtagtttgtg  | ttgtgtttag  | agttaaagtt  | ttttgttggg  | tagttgaaaa  | 4860 |
| aaatgtattt  | tttattttatt | tattgtttgt  | gtgagaggtg  | gatttgaaag  | tttgggtttt  | 4920 |
| tttaataaaat | atatgttggg  | aaattagata  | aagtatgagt  | tatttgtggg  | ggaaaatat   | 4980 |
| tttaggtaaa  | taaaatggg   | gtgttttgtg  | ttatttggga  | aggttttgtt  | tttgggtatt  | 5040 |
| aaagttaggg  | gtgtttggag  | ttagtagagt  | ttagtagagt  | tttattttatt | tttttaattgt | 5100 |
| ttttgtttta  | tgtgtttttt  | aaattttttt  | ttatttagat  | tattttagatt | gaaatatgtt  | 5160 |
| agttatgatg  | atgatttttt  | gggaagtgat  | ttttgttatt  | tgtttttttt  | ttttttttat  | 5220 |
| tttatgtttt  | ggggtttttag | agagtgtatt  | ggagttgaat  | gggtttgatt  | ttggagtttag | 5280 |
| ttgggttagt  | ttgtgttggg  | gtggatttgt  | ggtatgtgat  | ttttgatagt  | tggaaatttg  | 5340 |

## 12496480\_1.TXT

|             |            |             |             |             |            |      |
|-------------|------------|-------------|-------------|-------------|------------|------|
| taggtgtttt  | gtgagtttaa | aataagttat  | atggaagtat  | aagtgtttaa  | aaataatttt | 5400 |
| ttgttagttt  | agtataagt  | ttgttttatt  | tggggagaat  | gttttggagt  | ggtgtgtggg | 5460 |
| ttagttaggg  | tttgtgtttt | gtagttattg  | tgggaaggagt | gtggttgggt  | taggatatag | 5520 |
| gagattattt  | tgtgatttta | atggtgaagg  | tttgtgtgtt  | ttattttaat  | tttttttttt | 5580 |
| ataagaattg  | tttttttttt | tttttttttt  | tttttttatt  | ttttttgttt  | agtttttttt | 5640 |
| tttgtttttt  | gttttttgtt | tttttgatgg  | gtttgttagag | ggattaggtg  | ggtgtttttg | 5700 |
| gtgaatatatt | tttttaggtg | ttataggata  | ggtgtatttt  | ggattgggtt  | tgggaagttt | 5760 |
| aggggtgttat | atgggttggg | tttgaattag  | gtatttttta  | attgtatat   | ggtatttggg | 5820 |
| ttgggtgtttt | tatatatttt | tgttttgtaa  | gttgtggatt  | agtttttgtt  | tagtattttg | 5880 |
| tttttagggg  | tatttatagt | agaaggaagg  | ggatttaaagt | gtagtttggg  | tttagaggat | 5940 |
| attgaagggt  | agatttttgg | ggtatttagt  | gtgtattttt  | agtgtttttg  | gagaaattta | 6000 |
| gagtattttta | tagttatgta | gatttaagtt  | gttttttatt  | aaaagataaa  | taatgaataa | 6060 |
| aattttttaaa | ggttggtata | ttttaaat    | atttttattg  | ttttaattta  | gggttaaaat | 6120 |
| agagaaaaag  | gatttttttt | gtttattttt  | ttttttttta  | atggaagaat  | aaagtatagt | 6180 |
| gattaagttt  | aatttttat  | aatattttaa  | attgtttgat  | gtgaaggaag  | gtatttggat | 6240 |
| gatgtgaatt  | ttataatttt | atgatggatt  | ttagaaatta  | tttttttttt  | tatttaattt | 6300 |
| ttagtttttt  | tattgtaaat | taatgttgtt  | gaattttaat  | gggtattaat  | gagattgttt | 6360 |
| tttggttagat | tatttattgt | tttgtttaata | attataaagt  | gaatttgggt  | aaatatagag | 6420 |
| gggattgtat  | tttattttaa | attgtttatt  | attttagtga  | taagtgggtat | tagtgtaata | 6480 |
| tgttttattt  | tatatatttt | gtattatatg  | atattttaa   | attttttagaa | taataaaaaa | 6540 |
| agagataagg  | aaatttaaaa | ttaaaaaaa   | aatttgtata  | aatgggattt  | tgtgtggaaa | 6600 |
| tttagttttta | gaatgatttt | ttttgtgttt  | tatttttttg  | attatttttt  | tttttttgg  | 6660 |
| agaattttgt  | ttgttattat | ttagtaagga  | aaagaagtat  | ttatgtaagt  | tttttatatg | 6720 |
| gatagatat   | atttagtatt | tttttttttt  | tagttttttt  | gtttaaatga  | ttttgggtat | 6780 |
| aaaggaaaag  | attgattggg | tttttttagg  | aaattttaag  | ttttttaagt  | agttttttaa | 6840 |
| agttttgggg  | ttgaaagtag | tgttttttaa  | ttgtttgtta  | tgatttagag  | ggttatgaat | 6900 |
| ttagtttagt  | gagtttagaa | tattttttta  | aaggatttaa  | atggaaagga  | atataataga | 6960 |
| aaatattaga  | gtgtatggta | ttttgtaagg  | ataagttttg  | t           |            | 7001 |

&lt;210&gt; 23

&lt;211&gt; 7001

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; chemically treated genomic DNA (Homo sapiens)

&lt;400&gt; 23

|             |            |             |             |             |             |      |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| ataaaattta  | tttttatgaa | atattatgta  | ttttgatatt  | ttttattata  | ttttttttta  | 60   |
| tttttagttt  | tttaaaaaat | attttagatt  | tattaaattg  | agtttatgat  | tttttgggtt  | 120  |
| atgataagta  | gtttgaaaat | attgttttta  | gttttaaaat  | ttttgagaat  | tatttaagaa  | 180  |
| atttaaagtt  | ttttaaaaga | gtttaattaa  | tttttttttt  | tatatattaga | gttattttaag | 240  |
| tagaaaaatt  | gagaggggaa | aaatatttaa  | taatatattgt | ttatatgaag  | aatttgtata  | 300  |
| gatgtttttt  | ttttttgttg | gataataata  | ggtagaattt  | taataaaaaga | ggaaagataa  | 360  |
| tttgggaaat  | aaaatatagg | aaaaattatt  | ttaaaattga  | atttttatat  | agagttttat  | 420  |
| ttgtgtaagt  | ttttttttta | atttttaagt  | tttttgtttt  | tttttttatt  | attttaagag  | 480  |
| tgtttgaata  | ttatgtaatg | tagaaaagtg  | aagatagggg  | atatttatatt | gatattattt  | 540  |
| attattggga  | tgatgaataa | ttttgaataa  | gatgtgattt  | tttttgtatt  | tgattaggtt  | 600  |
| tattttgtaa  | ttattagtaa | ggtagtaaat  | aatttattaa  | ggagtagttt  | tattagtgtt  | 660  |
| tattgaaatt  | tagtagtatt | aatttgaat   | aaaagaattg  | aaaattaaat  | agggaagaaa  | 720  |
| atggtttttg  | gagtttatta | taaggttatg  | gaatttatat  | tatattagtg  | ttttttttta  | 780  |
| tattaaagtag | ttttaaatgt | tgtgtggaat  | tagattttaat | tgttgtattt  | tgttttttta  | 840  |
| tttaaaaaaa  | aaaaggtggg | tagaagaaat  | tttttttttt  | tgttttaatt  | ttaaattaaa  | 900  |
| ataagtaaaa  | ttaatttgaa | atatgttaat  | ttttaaaagt  | tttgtttatt  | gtttgttttt  | 960  |
| tgagtaaaga  | tagttttggt | ttgtgtgggt  | gtgggatgtt  | ttaaattttt  | ttaaaggtgg  | 1020 |
| tgaagatgta  | tattgaatat | ttttagaatt  | tgttttttag  | tatttttttg  | ggttaaaattg | 1080 |
| tatttttagtt | tttttttttt | tgtttataaat | attttttgga  | atagaatatt  | gaataaaaaa  | 1140 |
| tggtttatgg  | tttataaggt | agaaagatat  | agggatatta  | gtttggatat  | tagtgtatag  | 1200 |
| ttgggaaatg  | tttaatttag | gatttagtta  | tgtgggtgtt  | tgaagttttt  | aaatttagtt  | 1260 |
| tggggtatat  | ttgttttgtg | gttatttagg  | aaggtgttta  | ttagaagtg   | ttatttaatt  | 1320 |
| tttttgtagg  | tttattagga | aaataaaaaa  | taaaaataa   | aaggagaaat  | tgggtaagag  | 1380 |
| aaaatgggag  | ggagaggaga | gggagaaaga  | ataatttttg  | tagggaaaaa  | aattaaaatg  | 1440 |



## 12496480\_1.TXT

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| aggatatata  | atTTTTgtta  | ttgaagttat  | aaagtggttt  | tttgtgtttt  | ggattgggtg  | 1500 |
| tgtttttttt  | atagtgggtg  | tgaggtgtag  | atTTTTgttg  | atTTgtatgt  | tattttgggg  | 1560 |
| tatttttttt  | gggtgggata  | ggtttgttat  | tgggttggta  | ggagattatt  | tttaagtatt  | 1620 |
| tgtgttttta  | tatgggttgt  | tttaaatttg  | tgggataatt  | ataaattttt  | ggttgttaga  | 1680 |
| agttatatgt  | tagtaatttg  | ttttagtgtg  | gatttagtta  | gttaattttg  | aaattagatt  | 1740 |
| tatttaattt  | ttaattgttt  | tttaaagttt  | taggatgtgg  | ggtggggagg  | aggggaaagt  | 1800 |
| gggtgatagg  | aattgttttt  | tagaaaagtt  | ttattatagt  | tgatataatt  | ttaatataat  | 1860 |
| agtttagatg  | aaaggaaatt  | tggggagtat  | attaaataaa  | aatattaaaa  | ggataaataa  | 1920 |
| aattttgttg  | agttttgtta  | atTTTTaaata | tttttaattt  | taaatgttaa  | gagttagatt  | 1980 |
| tttttaagtg  | atTTaaagtg  | ttttgtgttt  | atTTgttttg  | aggtgttttt  | ttttataaat  | 2040 |
| aattgttgtt  | ttgtttgggt  | ttttaatgtg  | tgttttgtta  | ggaagttttg  | gtttttgggt  | 2100 |
| ttgttttttg  | tatggatggg  | aagtgggtgg  | agagtatgtt  | ttttttagtt  | gtttgggtgag | 2160 |
| agaatttgat  | tttgaatgta  | gtgtgggttg  | tatgtagaat  | ttttgggttg  | ggttgtgtgt  | 2220 |
| tttgggtttt  | ttgtgtgtat  | ttttgggttg  | tgtgttttgt  | ggtttttcta  | gttttttagg  | 2280 |
| tttttttttt  | tttttttttt  | tttttttttt  | ttttgttggg  | tgtgggtggg  | atTTttagtg  | 2340 |
| gtgggtgtgg  | tgtgggtatt  | tgtagaatgt  | tgggtgggtg  | gttttctgta  | ttgtgtagtt  | 2400 |
| gttgggtttg  | tttttttagg  | agtagggtat  | ttgttgggtg  | tggggttcta  | ggaaagggtg  | 2460 |
| tagtttgtgt  | ggtgggtcta  | gtagtattag  | tgggttttga  | gatatttgtt  | ttagtggggg  | 2520 |
| gaaatttttt  | aggttctgtg  | agttgaatgt  | tgtagtttta  | gatttggggg  | tgtaggggag  | 2580 |
| gttgggtttg  | ttgttagattt | gtgtgttggg  | ggtggttctg  | gtgttgaatt  | tgtaggtggg  | 2640 |
| gtttttgggg  | tagtttgtata | tgggtgggtt  | gttctgttgt  | aggtataatt  | tgttttaggg  | 2700 |
| ttgttttagg  | gggattttga  | gttctggatg  | gtttaggggg  | tttagtttgt  | ttttttggat  | 2760 |
| ttgatgtagt  | agggttattt  | tagatgtttt  | ggtgtggagg  | gttatggtta  | tgggttctgg  | 2820 |
| ttgtgggtag  | ggtgttagatt | gtgtttttgt  | agggtagaag  | gtttagaaat  | tgggtgggtta | 2880 |
| tttggaaaaa  | gagtatagtt  | ttaggttaga  | ggtgatgtag  | tgtatgtttt  | gttgatatgt  | 2940 |
| gagttttggg  | tttgggtttg  | ttttgggagt  | ttgtgggttt  | ggtgaagtct  | ggtgatttga  | 3000 |
| tgggagtaag  | tgtagtttta  | ggatgaatgt  | tttttcttag  | tttttgggtt  | tttgggtttt  | 3060 |
| taatttttaag | tattgggttt  | tttagtttat  | atgtattata  | aagggttttg  | aggatgggtta | 3120 |
| gggattgttg  | ttttgttttg  | atattgggtt  | aaatattatt  | ttagggtata  | tttgatttgg  | 3180 |
| agtgatttta  | aagagttagtt | tttttgaatt  | ttattttatt  | tgttcttgtt  | gttggataga  | 3240 |
| ggttgagttt  | tatggtttag  | gggtgggggt  | gtatgaggat  | ttgttaaagg  | tgggttaggg  | 3300 |
| aagattgggt  | ttaaaaataa  | tgtgaaagat  | ggatttaggg  | gttgggtttt  | tttaatttgt  | 3360 |
| tgtttttatg  | gtttttgtgt  | agattttctg  | atatttttgt  | ttgttttttt  | ttttgtttga  | 3420 |
| tttttttttt  | tttcttggta  | gaaatatgta  | gtgtgtatat  | aggatgattt  | tggggaggat  | 3480 |
| tatatctgta  | ttgagatagg  | gtagatagaa  | tggggcttgt  | ggtttgtatat | gtagttagtt  | 3540 |
| atagatagtt  | atatttagta  | gttgggggaa  | ttgatagggg  | gtatttgagg  | ggaagggggg  | 3600 |
| ggagatttag  | ggtatatata  | taggaagagt  | tgtattttgt  | tattaggaga  | atgtaatttg  | 3660 |
| ttaggatttt  | agtttttttt  | tttctaaaaa  | gtttttaaag  | tagatagatt  | tttttataat  | 3720 |
| tttttgagat  | ttttttagtt  | tgaatttgtt  | gtttatgttg  | gattatagta  | ttgtatttgg  | 3780 |
| ttttatttag  | aattttttatg | tgaaggatga  | tttagaaaaa  | tttttgggtta | gggtgtatat  | 3840 |
| gggtgtttat  | gtttttttata | ggttgggttat | gtaattaaaa  | tttttagaaaa | ttgaatataa  | 3900 |
| aatgtgattt  | tttttatatta | aatataattt  | taggttatga  | attaaagtct  | tggtaattat  | 3960 |
| gttatattgt  | tggtttgggt  | tagtttaatat | atTTttaaaa  | tgtatttttt  | tatgtttatt  | 4020 |
| tttttagttt  | ataatttctg  | ttttttgggt  | tattttgggt  | aggatatgta  | gaattaaata  | 4080 |
| tttagatgaa  | aaataaatag  | aaaaaagtct  | ttaaattgaat | taaaagttaa  | atatgtatat  | 4140 |
| gtatatatat  | atatatatat  | atgtgtatat  | atatatatat  | atatatatat  | atatatatata | 4200 |
| aggagataaa  | aaatagggtga | agtatatatt  | gtgtttataa  | ttttggatag  | tttatatttt  | 4260 |
| tgaataaatt  | ttttttgttg  | tagtttaata  | gattttgata  | taattattaa  | tattttgttt  | 4320 |
| taattgttat  | tttaaatatt  | taatagagta  | tttgatgaag  | tgtttatggg  | ttatttataat | 4380 |
| gttaagttta  | ttgttattaa  | gagtatatatt | tttgattatt  | ttatatataa  | tatatatttt  | 4440 |
| atTTaatttt  | tataaaaaata | gattatttgt  | ggataaatat  | taaatgtagt  | tgaagttaaa  | 4500 |
| attgagttta  | gtattaatga  | ttatagattg  | ttagtaaaaa  | aagggttaaa  | aatatatagg  | 4560 |
| gtgtatttga  | gatatttttt  | tttatgggtta | gtaattattta | ttttttaaag  | taattttttta | 4620 |
| tagatgattt  | aattttttata | aatttatatt  | ttaatttttta | aatgtttttt  | taaaatatat  | 4680 |
| gtaaaaagta  | tttttatagg  | tttttaaaaa  | atgtgaattt  | gttaaaattat | atgtaaatgg  | 4740 |
| tataaagaat  | tttataagtt  | ttgaaagaaa  | aaggagatat  | atatatatatt | ttatggagaa  | 4800 |
| tagtaatttt  | tttttttttg  | ttaggatata  | gatatttagtt | agaaaggtaa  | gttgtttttt  | 4860 |
| taaaatgtta  | aagttataga  | gagagaaatt  | aaaataagtt  | tatttttgttg | gattaagaat  | 4920 |
| gttttttttag | aaatgttttt  | tgggttttcta | gaagttaagg  | gttgagagag  | tgagaaggaa  | 4980 |
| ggaagggaat  | tgttttgtat  | tgtgagtggt  | ttagtgtgtg  | aattaggtag  | agagagtggt  | 5040 |
| tggatgtgtt  | tgtgtgtgga  | atggtaggga  | tttgggaagt  | agtttagtag  | taggggtattt | 5100 |
| ggtagttttt  | tttggtagat  | atgtagtttg  | gttatttgtat | agtgttggat  | gaatggtagt  | 5160 |
| ggggagtgag  | gggagatttg  | ttgtttgttt  | atagggaagta | gtgtgggtata | gttagagaaa  | 5220 |

## 12496480\_1.TXT

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| gttgatttgg  | ggaggagaaa  | tttttagtttt | tttggttttta | tttttggagg  | ttggaaagta  | 5280 |
| ttttatgttt  | tttggtgtta  | ttttaagtaa  | gaggaaaaat  | aggtttgttg  | tgaattatag  | 5340 |
| ttttatgggt  | aaaatagaat  | gttagtttaa  | agtgtatgga  | tattaagttt  | ataaaatagg  | 5400 |
| atatgggtgg  | tttttttgaa  | agaatataat  | ttaataataa  | aagttttttg  | ggatataatg  | 5460 |
| ggattaaatg  | ttttatttgt  | tttagttttt  | agtttttgaa  | tagagggtatt | gttatgtttt  | 5520 |
| tgattgtatt  | aggaaattag  | attttggaat  | aaatgttttg  | gtatttttagg | gatgtgtttt  | 5580 |
| tagttgaaat  | gtaatatattt | tttattttgt  | taattaaatt  | tataaatttt  | tttatgaata  | 5640 |
| gttttagttga | ttgttttttg  | taaatatgtg  | aaaaatatgt  | attattaaaa  | gtttaggata  | 5700 |
| tgaatataag  | ataaaggtag  | atatttttgt  | tttaaattga  | tttttaggtt  | ttgagttgta  | 5760 |
| ttgattgtga  | ttgggaatga  | ggttttttat  | tttttagtgg  | tgtttatatg  | gatttatattt | 5820 |
| ttgattattt  | ttttaattat  | ttttttgggt  | atagtattaa  | tatgtaatat  | tgagggtgtt  | 5880 |
| ttagagtgtt  | tatgttttagg | gttttaggat  | atatgatatt  | taatggagggt | tttggtgtta  | 5940 |
| gatattagtt  | attatttttgg | atattaaatg  | attttaatta  | taatgttagg  | agtgggttgg  | 6000 |
| ttttggtttt  | gggatattat  | gtagttattg  | agagatttat  | gagtggtttt  | tgagattagt  | 6060 |
| ataaaaaaga  | aatagaaagt  | tataaaaaatg | ttaatgatgt  | tattatgtaa  | atatatgttt  | 6120 |
| ttgtgttttg  | aaagattttt  | agtattgtag  | tgtttgagta  | taggagagtt  | ttttttatag  | 6180 |
| ttagtattga  | aaataaatat  | tggatataaa  | taaatattga  | aaagaaagat  | tgttattttt  | 6240 |
| tgttgggtgat | agtgggtgtt  | tttgtaggtt  | aataatgggt  | atttatgttt  | tagattagtt  | 6300 |
| ttagaaaaaa  | gtaagagtat  | ttagggaggg  | aggagagagg  | aataggggaa  | aggagaagga  | 6360 |
| aaggaaaggg  | gatttgtaat  | tgtttattat  | tgatatagga  | agaataagaa  | ggttagttgt  | 6420 |
| ttttttatag  | gttttgattg  | tttagagatt  | tataattaaa  | gttagtttaa  | gaagtttagt  | 6480 |
| aaagttagtt  | tttttaatta  | tttttttttt  | agtatttttt  | tttaaattta  | ttttgggtgag | 6540 |
| ttttgttttt  | gggtttgggtg | agtatgggtg  | ggaaagtata  | ttgtgttatg  | ttgatttttt  | 6600 |
| ttttttgttt  | ttggtaaaaa  | ttttattttg  | gttttttagt  | tttttgggtt  | ttttttttat  | 6660 |
| ttttttttgt  | tggatatata  | tgtttttagt  | gtgatttatt  | ggttttttta  | gggtgaagaag | 6720 |
| ggtaaagatt  | gatttgggtt  | ttttgttgaa  | tgtgttttta  | gttttatttt  | tttagtgggt  | 6780 |
| tggtgggtat  | tgtaggtttg  | tttaaataatg | agttattatt  | tttaaataatg | gtgttttttt  | 6840 |
| taattttttt  | gtgttttgtg  | ttagtattat  | tgttttttta  | gttattttaga | ttaaaaatttt | 6900 |
| attgtttttt  | ttgaggggtg  | attttttttt  | gttttttata  | tttaattaaag | aggtaatttt  | 6960 |
| taagtttttt  | agtttttata  | tttttttttt  | tttatgttat  | t           |             | 7001 |

&lt;210&gt; 24

&lt;211&gt; 11001

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; chemically treated genomic DNA (Homo sapiens)

&lt;400&gt; 24

|            |             |             |            |             |            |      |
|------------|-------------|-------------|------------|-------------|------------|------|
| ttaagttaga | tgtttttttaa | ttattttgtgg | ataggttagg | tatatatttga | gtttaatttt | 60   |
| attttatagg | tttaatatatt | tggagttaga  | aagtttttag | gtaaaaagtt  | tgaagggggg | 120  |
| ttttttatgt | tattagatgg  | atttttgtat  | ttttagaaga | ttttttatat  | taggaaagat | 180  |
| taaagtatta | aggtaatttt  | ttttgggttt  | ttgggataat | tttaggtttt  | gggatgagtg | 240  |
| gtttggaagt | ttttgtttta  | gttataatgt  | ttatatattt | ttggaattgt  | tttgtagggg | 300  |
| ttgtttttta | gtataaatttt | ttttttaagt  | tttattgtag | ttatagttta  | ttagttttgt | 360  |
| ttagtataaa | ttaagaaatt  | aagaattatg  | tatttatgtt | tattttttta  | gagttatttt | 420  |
| tttttaggat | aaagtttagg  | gttttgttat  | tgggttttgt | taggagttgt  | agttgtaggg | 480  |
| gttgtttatt | atttaatatg  | ttttgtaagt  | atattgtgaa | ggggaagtaa  | tgattagaga | 540  |
| tagggttagt | tgtttagttt  | ttgtatgttt  | aggtgtatgt | gtatatattt  | ttatataggg | 600  |
| taggggtggg | tgggaagttt  | attttgggtg  | tgatgtttag | tgtgtttaaa  | gagtgtaaat | 660  |
| ttgtgggggt | tatttattat  | taagaatttt  | tgtagtaggg | ttttaatgat  | tttatgtgtt | 720  |
| tttgtgtgtg | atagtatatg  | taggtgtttg  | atagtatttt | tgggtaggta  | aaaggaagtg | 780  |
| tggtgtttga | tattttgtgt  | ttgttttggg  | ttttgttggg | tattttgtaa  | ggaggggtgg | 840  |
| tttttgattg | agggtataga  | gatagggtgt  | attagtttta | gttgaatttt  | gatgaagttt | 900  |
| gtgtaagaat | tgtttttgtt  | ttaaagaaat  | agagaaatta | aatttttgata | ataggtttta | 960  |
| ggtgagatgt | tagtttattt  | ggggtttagt  | tgggtatgta | taaattattg  | tttgtgttta | 1020 |
| tttaagataa | tttttagttg  | gattttttga  | gtattaggta | tatagttggg  | tattttgttt | 1080 |
| tttttatgtt | ttttttttga  | gtagtttaatt | tattaaagtt | atgaagagggt | tggtgttgat | 1140 |
| ttgggtattg | tattttttga  | ttttttgttt  | aatttttagt | tgagaaagggt | taggtgtttt | 1200 |
| ttattttata | ggtttgtttt  | gtaagatggg  | ttagtatgga | tatagggttt  | ttgaggaatt | 1260 |
| taggggtttt | ttgaaaaatg  | gtttttgggg  | tagttttttg | aaattgattg  | tttttgggtt | 1320 |

## 12496480\_1.TXT

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| ttttgtatgt  | tttgggtgga  | taagggaaag  | atagaattat  | ttggtttttt  | tttgtttgtt  | 1440 |
| gttttaggggt | ttagtattga  | atgtagtttt  | aaggatatta  | tagaagtagg  | ggtaattgaa  | 1500 |
| ggtatatggt  | taggggttag  | gaatagttga  | gggattttga  | agagggattt  | ttatttaaag  | 1560 |
| taaaattagg  | ttgggtgtgg  | tggtttatat  | ttgtaatttt  | agtattttgg  | gaggtttaagg | 1620 |
| taggaggatt  | atttgatttt  | taggagtttg  | agattagttt  | gggtaatata  | gtaagatttt  | 1680 |
| atttttatta  | aaaaaagaaa  | aaaaaaaaatt | agttaggtgt  | ggtggtgtgt  | ttgtagtttt  | 1740 |
| aattgttttag | gaggttgagg  | tgggaggatt  | gtttgagttt  | gggagattgt  | agttatagta  | 1800 |
| agttattatt  | gtgttattgt  | attttagttt  | ggggaattga  | gtgagatttt  | gttttaaaat  | 1860 |
| ataaaaaata  | aaaatagggt  | gggtatgttg  | gtttatgttt  | gtaatttttag | tattttggga  | 1920 |
| ggttgagggtg | ggtggattat  | ttgaggttag  | gagtttgaga  | ttagtttgat  | taatatggag  | 1980 |
| aaatttttgt  | tttattaaaa  | atataaaatt  | agttaggtgt  | ggtggtatat  | gtttgtaatt  | 2040 |
| ttagttattt  | aggagggtga  | ggtaggagaa  | ttgtttaaat  | ttgggagggtg | gaggttgtag  | 2100 |
| tgaattgaga  | ttgtgttatt  | gtattttagt  | ttgggtaata  | agagtgaat   | ttggttttta  | 2160 |
| aaaaaaaaaa  | aattagtaaa  | attatatttt  | aattgtatat  | tttgattata  | gtattttagt  | 2220 |
| tgagttggag  | tgagggtttg  | ttttggagaa  | ggtagtttat  | tttttttttt  | tgttttggga  | 2280 |
| tggggttatg  | atttattgta  | gggtgagagg  | agtggagagt  | ggtgtatatt  | agtagtttag  | 2340 |
| ttattagtgg  | atagagtagt  | atttggagtt  | agttttttat  | gttttatata  | tagtgagaaa  | 2400 |
| aattattgtg  | atatgatgtt  | taattttgat  | ttaagttgta  | taaaaggtag  | ttttaggtta  | 2460 |
| ggttttaatt  | tgtttagaggt | atataggtag  | ttttttgggtg | ggtttttgta  | tttgtttgtg  | 2520 |
| ttgtttggag  | atttggttta  | aagatttttt  | ttttttttga  | gatgaagttt  | tattttgttg  | 2580 |
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| agtgattttt  | ttgttttga   | tttttgagta  | gttgggatta  | taggtgtgtg  | ttataataat  | 2700 |
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| ggtgtgaatt  | attgtattttg | attttagagat | ttttaattttg | attattttatt | ttttatttta  | 2880 |
| tttagggatt  | ggatttttgt  | tgggaagggtg | gagtggtggga | tagggtagtt  | aggggttttg  | 2940 |
| attgattttt  | ttttttttag  | tttttttggt  | ttattgttat  | tagttttatt  | ttttgttgat  | 3000 |
| gttagatagg  | ttttagtttag | aatgtgagtg  | ttatagatat  | agttaagttt  | agtgttgatt  | 3060 |
| aatattttgt  | ttttagaagaa | tttttataag  | gttttttgta  | gaatgatttt  | gtgttttagtt | 3120 |
| taggagaggt  | aggggtttttt | ttgattttgt  | tttggagttt  | ttttaagtat  | ttaaattatt  | 3180 |
| tgatggggat  | aaatggagag  | gatagatgag  | ggagtaggggt | ggagtgtttt  | agtagaatgt  | 3240 |
| ttttttattt  | gaattttgtt  | ttatttttga  | gttagtaagg  | atgtgggggt  | aagaattaaag | 3300 |
| gttagggttt  | tataggaaaa  | aggtaaaagg  | ggaggggtgg  | gaattttaagt | ttattttttt  | 3360 |
| ttttaagtat  | ttaaagggttt | tttggatgga  | gaagagtatt  | ggagtaaaaa  | tttttagtata | 3420 |
| aatttttattg | gggatagtg   | gtaattttgt  | tgggttagta  | aaaataaatg  | gtgtgggttt  | 3480 |
| tggaaaatga  | gggttgagg   | ttgtgaataa  | agtagtggt   | gtgtttgttt  | agtatattaa  | 3540 |
| tgggaagaag  | tatttagatg  | ggaggagtat  | taggggtagg  | agaaatgtta  | gatagatttt  | 3600 |
| agtgattagg  | taagaaggaa  | gattattttg  | tttgtagaat  | agggagggtta | tagggatggt  | 3660 |
| gtaattttgt  | ttttgtgatg  | gttttgagtt  | tttatttaat  | aatgagaaag  | tttgtttttt  | 3720 |
| tttttttttt  | tggatgattt  | aggagttttg  | ggttgggatg  | tagtgatttt  | attttttagtt | 3780 |
| tttttttttt  | tgggtgatgaa | tttttttatt  | tttatttga   | aaatagattt  | ggattagagg  | 3840 |
| tattgtatag  | tttttttagg  | attttaaagg  | aggaagagtt  | tttttttttg  | tttttaaagt  | 3900 |
| tgtttgttgg  | aagaggattt  | taatagttat  | tttagttgga  | tgtatagtag  | gattatggaa  | 3960 |

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| tttttttttt  | gtattatagg  | gatttatttt  | ttattttatt  | attgtttata  | aaaattgatg  | 4020 |
| gttttttttt  | tgagatagag  | ttttgttttg  | ttttttagggt | tggagtgtag  | tgggtgtgatt | 4080 |
| ttgggtttatt | gtaattttttg | ttttttgggt  | ttaagtaatt  | ttttgtttta  | gttttttaag  | 4140 |
| tagttgggat  | tataggtgtt  | tgttattata  | attggttaat  | tttttgtatt  | tttagttgag  | 4200 |
| atggggtttt  | attatttttg  | ttaggttggt  | tttgaatttt  | tgattttatg  | atttatttat  | 4260 |
| tttggttttt  | taaagtgttg  | ggattaaagg  | tgtgagttat  | tgtatttggt  | ttaaaattga  | 4320 |
| tgtttttttt  | ttttttttta  | atatataatt  | tgggattttt  | tagtttttta  | tttttttttt  | 4380 |
| tttttttttt  | ttttttttga  | gatagagttt  | tgttttttta  | tttaggttgg  | aatgtagtgg  | 4440 |
| tttagttttg  | atttattgta  | atttttgttt  | tttgggttta  | agtgatattt  | ttgttttagt  | 4500 |
| tttttttagta | gttgggatta  | taggtatata  | ttattatggt  | tagataaatt  | ttttgtattt  | 4560 |
| ttagtataga  | tggggttttg  | ttatgttggt  | ttggtaggtt  | ttgaattttt  | ggttttaagt  | 4620 |
| gatttgtttg  | ttttgggtttt | ttaaaatggt  | gagattatag  | gtatgagttta | ttaaagtttag | 4680 |
| tttttttttt  | ttttttttgag | atagagtttt  | attttgttat  | ttaggttgga  | gtgtagtggg  | 4740 |
| atgatttttg  | tttattgttaa | tttttgtttt  | ttgggtgaag  | tgattttagt  | ttttaagtag  | 4800 |
| ttgggattat  | agttatatat  | tattatgttt  | gggttaatttt | tgtatgttta  | gtagagatag  | 4860 |
| ggttttatta  | tgttggttag  | gttgattttg  | aatttttgat  | tgtaaatgat  | ttatttgttt  | 4920 |
| tggtttttta  | aagtattggg  | attagagggtg | tgagttattg  | tatttgggtt  | ttttttttat  | 4980 |
| ttttgagata  | gagttttatt  | ttgttattta  | ggttggagtg  | tagtggtagt  | attttgggtt  | 5040 |

## 12496480\_1.TXT

|             |             |             |     |           |            |      |
|-------------|-------------|-------------|-----|-----------|------------|------|
| attgtaat    | ttgttttt    | ggtttaagt   | at  | tttttttt  | taagtagtt  | 5100 |
| ggattatag   | tgtgtat     | tgtggttag   | tt  | tttttttt  | tgtttt     | 5160 |
| tttttttatt  | tttttatag   | ggaaaatgg   | tt  | taggattga | ttgatatga  | 5220 |
| ggggtttata  | tttaatttaa  | tttttgtatt  | ta  | agtttttgg | gttaagatt  | 5280 |
| agtattat    | at          | ttt         | gt  | ta        | ag         | 5340 |
| tatttttttt  | at          | tt          | aa  | at        | tt         | 5400 |
| agttttttgt  | tttttttttt  | gggtgttttag | tt  | tg        | ag         | 5460 |
| atggat      | tt          | tt          | tt  | tt        | tt         | 5520 |
| atagttttgg  | gttagta     | tt          | tt  | tt        | tt         | 5580 |
| gttttttttt  | tttttgtggg  | taaagtgttt  | tt  | ga        | at         | 5640 |
| ttttttat    | at          | tt          | tt  | tt        | tt         | 5700 |
| ttatat      | tt          | tt          | tt  | tt        | tt         | 5760 |
| tatataggag  | tgtagatgga  | ggagtaggat  | tt  | tt        | tt         | 5820 |
| tatttttttaa | tttttgggtga | ggatttttttt | tt  | tt        | tt         | 5880 |
| gagggagtag  | gagtatttga  | atgtggaaat  | tg  | aggtgtta  | gtttaaattg | 5940 |
| tttagttata  | gttggataat  | gtttggttta  | gg  | tt        | tt         | 6000 |
| ttgtgttttaa | tttgtttgtg  | atagaaatta  | ag  | gg        | tt         | 6060 |
| tggaattggg  | gttttatgta  | tggttttgtg  | gg  | tt        | tt         | 6120 |
| ttatgtagtt  | aggaggggtg  | ggttgtttat  | tg  | att       | tt         | 6180 |
| gggtgagttt  | tagtgattgt  | tttttttttt  | gt  | tt        | tt         | 6240 |
| ttttgggtgtg | gtttgtgagt  | tagtgaggtt  | tg  | gt        | tt         | 6300 |
| tttagttttt  | tttggttgta  | gtagttattg  | tt  | gt        | tt         | 6360 |
| gaaggtgttt  | ttgttttgtt  | tatagtgtga  | tt  | gt        | tt         | 6420 |
| agttgtta    | tattgtttttg | gttgtgtgtg  | tg  | gt        | tt         | 6480 |
| tttgggttag  | agttgtgttg  | taattgttaa  | ga  | tt        | tt         | 6540 |
| tttgttttat  | tggggttagga | atgttggggt  | gg  | ga        | tt         | 6600 |
| at          | tt          | tt          | tt  | tt        | tt         | 6660 |
| gtttat      | tt          | tt          | tt  | tt        | tt         | 6720 |
| gtttat      | tt          | tt          | tt  | tt        | tt         | 6780 |
| ggag        | tt          | tt          | tt  | tt        | tt         | 6840 |
| ttttgtgttg  | ttgggaaatt  | ggtaattaga  | at  | gt        | tt         | 6900 |
| tttgagaatg  | tttgtattgt  | ggtttgttta  | tt  | tt        | tt         | 6960 |
| gtgtttat    | tttgtgtgtt  | ttgtttttat  | gt  | gg        | tt         | 7020 |
| taaatgttta  | ggtagatgag  | tgtgtggtag  | tg  | gt        | tt         | 7080 |
| gagaggtttg  | gtggtgaggt  | ggaggagttt  | tag | gt        | tt         | 7140 |
| ggaagtttta  | gggagagggg  | tgttgtttgt  | tag | gt        | tt         | 7200 |
| ggttat      | tattgtttatg | tggatttttaa | tg  | tt        | tt         | 7260 |
| tgggaaggtta | taggttagaga | ggtttgttta  | at  | ag        | tt         | 7320 |
| tttttttttt  | ttttattggt  | at          | tt  | tt        | tt         | 7380 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 7440 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 7500 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 7560 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 7620 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 7680 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 7740 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 7800 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 7860 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 7920 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 7980 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 8040 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 8100 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 8160 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 8220 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 8280 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 8340 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 8400 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 8460 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 8520 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 8580 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 8640 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 8700 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 8760 |
| ttat        | tt          | tt          | tt  | tt        | tt         | 8820 |

## 12496480\_1.TXT

|             |             |             |            |             |            |       |
|-------------|-------------|-------------|------------|-------------|------------|-------|
| atgtatatat  | agattttgga  | tattattttat | ttataagttt | ttaaataggt  | tagagtagtg | 8880  |
| atgtttaatt  | tagattttat  | gttataataa  | tttggggagt | ttttaaaatt  | tattgatgtt | 8940  |
| tagggtttat  | tttttagtag  | tgattttaata | ggtttgtggt | gggatttagg  | ttagtgggga | 9000  |
| ggattgtaaa  | agtatttttg  | gtgatttttag | ttgggtgtta | tttaggggag  | agtaattttt | 9060  |
| gtttgttggt  | gatttttagg  | ggtgtagaag  | gattgttggg | tgtgtgggtt  | tgtgtatatt | 9120  |
| ttagtatttg  | atttattggg  | ttagaaaagg  | gtgtttgtta | aataaagatt  | taataaaatt | 9180  |
| tttgtttgta  | gggggtttat  | taaaggtttt  | aaattttttt | aggttttttt  | ttataggtgg | 9240  |
| taattttttt  | ttattttaaa  | ggttttggag  | ggggttatga | gtgtttgaga  | agaggtaagt | 9300  |
| ttgggaagat  | ggattttgag  | gatagtaggt  | ataaattttt | ttttaagaag  | ggttaaggta | 9360  |
| ttttaaagat  | aagaaaattta | aaattagttg  | atttttatat | ataagtagtt  | atttttgttt | 9420  |
| atttgtgggt  | tagatatgag  | tggagtgtga  | taagggataa | attatttttg  | tgtatttttt | 9480  |
| agtgatgggg  | tgaagtaaat  | ggatttagtt  | tttgggagtt | gtttttgttg  | attttttttg | 9540  |
| ttgtgatttg  | atttgtggtg  | attgtgttgt  | tttttgggtg | ttttttttgt  | ttttgtaggt | 9600  |
| gtgtgggggt  | attattttatg | tgtgtattgt  | aggtttttgt | gtatgatgtt  | ttagatgaag | 9660  |
| ttgttataga  | ggttgtatta  | tgtgtgtgtg  | gtgggttttg | tgggttggaa  | gtggtgggta | 9720  |
| tggttaggga  | ttagtgtgtg  | tgtgggggtg  | tatgtggtgt | tttgtgtgat  | gtgtagtgtg | 9780  |
| ttggtatggt  | ttagtgggtg  | gtgggttttt  | ttagtgtgtt | tagtgggtgt  | tagtttttgt | 9840  |
| agtttaaatga | gttttaggttt | ttttgatatg  | gtttgggttg | gtttgtgttt  | tgttgggttt | 9900  |
| gggtgttagt  | aagtgtgggt  | tgggtggggg  | tatagggtgg | gttttgattt  | tagtgttttt | 9960  |
| tttaggattt  | agattgggtg  | gtgggaagga  | gttgaggaga | gttgtgtaat  | ggaaattttg | 10020 |
| gtgtagggat  | tgtgggggtt  | gaagggtggg  | ttgggtgtgt | ttttgtagag  | ttttttttgt | 10080 |
| tttgtttttt  | tttttttttt  | tttataatttt | attttggatg | gttataatga  |            | 10140 |
| tgggtgattgt | aaagtattat  | gtggagatat  | ttgtgttttt | ggagggttagt | tttattgtgt | 10200 |
| tagaggaaga  | gggtttttat  | atttgggttt  | ggtttttttg | gtttgggttg  | ttgaagtaat | 10260 |
| atatttggtt  | tattttattgg | gtggggtagg  | aagttttgag | tttttatttg  | gggtgaggag | 10320 |
| gagggagatt  | ggttagtagt  | tttattgttt  | gttttgtttt | ttattgtgga  | gattgggggt | 10380 |
| ttggtagagg  | ttggatttgt  | attttgaggt  | ttaggggtgt | attttgggtg  | gatttttttg | 10440 |
| gtatgggtgg  | ttggttttta  | gtaattgtag  | tttttatttg | gttttgttat  | tttgggttgt | 10500 |
| taggatataa  | gtttttttat  | gtttttttta  | gtgtttgatt | tgggtattttt | tgtaggtagg | 10560 |
| tgggtattga  | ggatggtaat  | gtatgtgggg  | gatgtgggag | taggggttag  | aggtttaagg | 10620 |
| ttttaggata  | tttttatttg  | tagtaatat   | atttattttg | gtattgtgag  | tagtgtttag | 10680 |
| aagtttttgt  | attgtagtaa  | gtatagtggg  | gttgttttgg | agttattgtt  | tttagtatat | 10740 |
| ttagtttgta  | ggtttttagt  | tattttgggg  | aaagtttaga | aggtttgatt  | ggttttggaa | 10800 |
| ggtgggggta  | ttttatttat  | atttatgttt  | tttgtatttt | ttttattttt  | tttgtttatt | 10860 |
| ttatagggtt  | tattttttgt  | tttgtagtgt  | taggttttgt | tttgaggggt  | tgaatatatg | 10920 |
| ttggagttgg  | tgtttggtaa  | ttgtttgtta  | tttgtttttg | tttttttgtt  | ttagtgtttt | 10980 |
| ttagattttt  | gggatttagg  | a           |            |             |            | 11001 |

&lt;210&gt; 25

&lt;211&gt; 11001

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; chemically treated genomic DNA (Homo sapiens)

&lt;400&gt; 25

|             |             |             |             |            |             |     |
|-------------|-------------|-------------|-------------|------------|-------------|-----|
| tttttagattt | tagaaaatttg | ggagtgggtt  | gagtgagaaa  | atagaggtaa | gtggtaggta  | 60  |
| attgttaagt  | attagtttta  | gtatgtgttt  | agtttttttag | agtaggattt | gtgggtgtag  | 120 |
| gtgtgaagg   | aaggttttgt  | gaaatggtag  | ggaggggtgga | ggggatgtag | gaggtaggga  | 180 |
| tgtgggtggg  | gtgtttttat  | tttttagggg  | tagtttagatt | tttttgattt | ttttttaggt  | 240 |
| gggttgagat  | ttatagggtt  | gatgtgttag  | aggtagtggt  | tttagagtgg | ttttgttgtg  | 300 |
| tttattgtag  | tgtagagggt  | tttaagtgtt  | gtttatgatg  | ttagaatgag | tgggtattgtt | 360 |
| gtaggtagag  | gtattttaga  | attttggatt  | tttaagtttt  | atttttatat | tttttatatg  | 420 |
| tattgttatt  | tttaatatatt | atttgtttgt  | agggagtgtt  | aagttaagta | ttgggaaaag  | 480 |
| tatggaaaga  | tttgtgtttt  | ggtagtttag  | ggtgatagag  | ttaaatgagg | gttgtagtgt  | 540 |
| ttgagggttg  | attattttat  | tttaagggaat | ttatttagaa  | tgtatttttg | aattttaaga  | 600 |
| ttatggttta  | gtttttgttg  | gagttttagt  | ttttgtagt   | gagagttag  | tgggtggtaa  | 660 |
| agttgttgat  | tgattttttt  | tttttttatt  | tttaagtgaag | gtttgagatt | ttttgtttta  | 720 |
| tttagtgggt  | aggtttaagt  | tgtttgtttt  | gtaaatttga  | ttaggagggt | taggggttga  | 780 |
| tgtggggatt  | tttttttttt  | agtatatgaa  | agttggtttt  | tagaaaatat | ggtatttttt  | 840 |
| tgtgggtgtt  | tgtgggttgt  | gttgttgtgg  | ttgttttggg  | tgggggtgtg | ggaggggatg  | 900 |

## 12496480\_1.TXT

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| aaggagggaa  | ggaagggtaa  | ggtggggggg  | gttttgtgag  | agtgtgttta  | gttttgtttt  | 960  |
| tgggttttat  | agtttttgta  | tttaggtttt  | tattgtgtgg  | tttttttttag | tttttttttg  | 1020 |
| ttgttttagtt | tggatttttg  | gggaggtggt  | gaagtgtggg  | tttgttttgt  | ggtttttggtt | 1080 |
| ggtttgtggt  | tgttagtggt  | taaagttagt  | gaagtatggg  | tttaattggg  | ttatgttggg  | 1140 |
| ggagtttgag  | tttattgagt  | tgtgggagtt  | ggtatttgtt  | gggtgtgttg  | ggaagggttg  | 1200 |
| tatttgggtg  | gagtgtgtta  | atgtgttgtg  | tattgtgtgg  | ggtatttgtt  | gtaattttat  | 1260 |
| atggtagttg  | gtttttgggt  | gtgggttattg | tttttagttt  | gtgggggtttg | ttatgtatat  | 1320 |
| gtggtgtgat  | ttttgtgggt  | attttatttg  | gggtgttgtg  | tgtaaagggt  | tgtagtgtgt  | 1380 |
| gtgtgagtag  | tggttttgtg  | tgtttatgag  | agtggaaagg  | gtagttaagg  | ggtagtgtag  | 1440 |
| ttgttgtggg  | ttaaagttgt  | gtagaggggg  | ttggtgggga  | tagtttttga  | ggattagggt  | 1500 |
| tgttattttt  | gttttattgt  | tgaagagtgt  | gtgaaaatgg  | tttatttttt  | gttgtatttt  | 1560 |
| atttgtattt  | gggttataga  | tgagttagagg | tggttgttta  | tatgtaaaaa  | tatgttgatt  | 1620 |
| ttaaagttttt | tatttttaaa  | atgttttggt  | tttttttgag  | aaaggggtttg | tgtttattgt  | 1680 |
| ttttggagtt  | tattttttta  | ggtttgtttt  | tttttaata   | tttatgattt  | tttttagaat  | 1740 |
| ttttaggggtg | aagggaaatt  | attattttatg | ggagggagtt  | tggaaaaatt  | tagaattttt  | 1800 |
| ggtgggtttt  | ttgtaagtag  | gagttttgtt  | gagtttttat  | ttagttaaata | tttttttttg  | 1860 |
| atttagttaa  | ttagatgtta  | aaatatgtat  | gtagtataat  | atttagttagt | ttttttgtat  | 1920 |
| ttttgggaat  | tgttagtaag  | taaagggtgt  | ttttttttgg  | gtagatatta  | gttggaatta  | 1980 |
| ttaggggtgt  | ttttatagtt  | ttttttgtta  | gtttggattt  | tattgtagat  | ttgttgaatt  | 2040 |
| aattgttggg  | agtggatttt  | aggtattagt  | aaatttttaa  | aatttttttaa | attattgtaa  | 2100 |
| tatggagttt  | gggttgagta  | ttattgtttt  | ggtttatttta | ggaatttgtg  | gatggatagt  | 2160 |
| gttttaggtt  | tgtgtgtgta  | tggagatttt  | tttatttggt  | ataagaggat  | attataaatt  | 2220 |
| tagttggggg  | gagtataaag  | ttgtgataga  | atgtaaagaa  | tgaataaggg  | gttgagtgtg  | 2280 |
| gtggtttatg  | tttgtaattt  | tagtattttt  | gaagggtggg  | gtgggtggat  | tatttgaggt  | 2340 |
| taggagttta  | agattagttt  | ggttaatatg  | gtgaaatttt  | atgtttatta  | aaaaataaaa  | 2400 |
| aaaaatgagt  | taggtgtagt  | ggtgggtgtt  | tgtaatttta  | gttatttggt  | aggttgaggt  | 2460 |
| gggagaattg  | tttgaatata  | ggaggtggag  | gttgtagtga  | gttgagattg  | tgttatttgt  | 2520 |
| tttttagttt  | ggtgatagag  | tgagattttt  | ttttaaaaaa  | aaaaaaaaaa  | aaaaaaagaa  | 2580 |
| taagggttggg | atattgtagt  | gttttttaag  | agaaataaag  | tagttatgga  | gataagaagt  | 2640 |
| aggatgattt  | gggtatgttt  | attagaggta  | gagataaggg  | agaaattaaa  | gataagtttg  | 2700 |
| ggtttttgtt  | tttagtaatt  | gggagtttag  | tggttatttt  | tgttgtaaaag | aggaagtttg  | 2760 |
| gtaagtgtag  | tagtgaggtt  | gaagaaaagg  | gaattaaatt  | ttgggttatgt | ttatttgaaa  | 2820 |
| tgttttttag  | atattttagt  | gaaggatttg  | gtatggagga  | tttagtttga  | gggttttaggt | 2880 |
| tagtgtttta  | tgttggtggt  | tgggtagat   | gaatgtagat  | agattagggt  | agtgattagg  | 2940 |
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<400> 31

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18